N61331.AR.000937
NSWC PANAMA CITY
5090.3a

Technical Report for

Tetra-Tech, NUS

CSS Panama City-N2834(CTO-0184)

WORK RELEASE# 184 PC-1

Accutest Job Number: F11175

Report to:

Tetra Tech, NUS Corporate

smithsi@ttnus.com

ATTN: Suzanne Smith

Total number of pages in report: 30

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Tetra-Tech, NUS

Job No: F11175

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE# 184 PC-1

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F11175-1	10/10/01	07:50	SS	10/11/01	SO	Soil	PCYS10SL0608
F11175-2	10/10/01	08:40	SS	10/11/01	SO	Soil	PCYS10SL0506
F11175-3	10/10/01	10:50	SS	10/11/01	SO	Soil	PCYS10SL0206
F11175-4	10/10/01	11:10	SS	10/11/01	AQ	Ground Water	PCYS10R1010
F11175-5	10/10/01	14:20	SS	10/11/01	AQ	Ground Water	PCYS10GL0710

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K007123.D	50	10/24/01	NAF	n/a	n/a	VK240
Run #2							

VOA PPL List

CAS No.	Compound	Result	RL	Units	Q
107-02-8	Acrolein	ND	710	ug/kg	
107-13-1	Acrylonitrile	ND	710	ug/kg	
71-43-2	Benzene	ND	350	ug/kg	
75-27-4	Bromodichloromethane	ND	350	ug/kg	
75-25-2	Bromoform	ND	350	ug/kg	
108-90-7	Chlorobenzene	ND	350	ug/kg	
75-00-3	Chloroethane	ND	350	ug/kg	
67-66-3	Chloroform	ND	350	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	710	ug/kg	
56-23-5	Carbon tetrachloride	ND	350	ug/kg	
75-34-3	1,1-Dichloroethane	ND	350	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	350	ug/kg	
107-06-2	1,2-Dichloroethane	ND	350	ug/kg	
78-87-5	1,2-Dichloropropane	ND	350	ug/kg	
124-48-1	Dibromochloromethane	ND	350	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	350	ug/kg	
541-73-1	m-Dichlorobenzene	ND	350	ug/kg	
95-50-1	o-Dichlorobenzene	ND	350	ug/kg	
106-46-7	p-Dichlorobenzene	ND	350	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	350	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	350	ug/kg	
100-41-4	Ethylbenzene	ND	350	ug/kg	
74-83-9	Methyl bromide	ND	350	ug/kg	
74-87-3	Methyl chloride	ND	350	ug/kg	
75-09-2	Methylene chloride	ND	710	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	350	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	350	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	350	ug/kg	
127-18-4	Tetrachloroethylene	344	350	ug/kg	J
108-88-3	Toluene	ND	350	ug/kg	
79-01-6	Trichloroethylene	ND	350	ug/kg	
75-69-4	Trichlorofluoromethane	ND	350	ug/kg	
75-01-4	Vinyl chloride	ND	350	ug/kg	
1330-20-7	Xylene (total)	ND	1000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

VOA PPL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		75-125%
2037-26-5	Toluene-D8	100%		75-125%
460-00-4	4-Bromofluorobenzene	94%		72-137%
17060-07-0	1,2-Dichloroethane-D4	89%		68-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
2051-30-1	Octane, 2,6-dimethyl-	21.94	740	ug/kg	JN
14676-29-0	Heptane, 3-ethyl-2-methyl-	22.28	890	ug/kg	JN
6783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	22.57	1100	ug/kg	JN
41977-43-9	Cyclopropane, 1,1,2-trimethyl-3-(2-methy	23.91	740	ug/kg	JN
17302-28-2	Nonane, 2,6-dimethyl-	24.27	1400	ug/kg	JN
13151-34-3	Decane, 3-methyl-	24.76	970	ug/kg	JN
1678-98-4	Cyclohexane, (2-methylpropyl)-	25.14	850	ug/kg	JN
	Total TIC, Volatile		6690	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L009180.D	40	10/16/01	ME	10/16/01	OP3992	SL525
Run #2							

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	17000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	17000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	17000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	42000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	42000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	34000	ug/kg	
88-75-5	2-Nitrophenol	ND	17000	ug/kg	
100-02-7	4-Nitrophenol	ND	42000	ug/kg	
87-86-5	Pentachlorophenol	ND	42000	ug/kg	
108-95-2	Phenol	ND	17000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	17000	ug/kg	
83-32-9	Acenaphthene	ND	17000	ug/kg	
208-96-8	Acenaphthylene	ND	17000	ug/kg	
120-12-7	Anthracene	ND	17000	ug/kg	
92-87-5	Benzidine	ND	42000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	17000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	17000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	17000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	17000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	17000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	17000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	17000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	17000	ug/kg	
106-47-8	4-Chloroaniline	ND	17000	ug/kg	
218-01-9	Chrysene	ND	17000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	17000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	17000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	17000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	17000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	17000	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	17000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	17000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	17000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	17000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	17000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	34000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	17000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	17000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	17000	ug/kg	
84-66-2	Diethyl phthalate	ND	17000	ug/kg	
131-11-3	Dimethyl phthalate	ND	17000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	17000	ug/kg	
206-44-0	Fluoranthene	ND	17000	ug/kg	
86-73-7	Fluorene	ND	17000	ug/kg	
118-74-1	Hexachlorobenzene	ND	17000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	17000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	17000	ug/kg	
67-72-1	Hexachloroethane	ND	17000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	17000	ug/kg	
78-59-1	Isophorone	ND	17000	ug/kg	
91-20-3	Naphthalene	ND	17000	ug/kg	
98-95-3	Nitrobenzene	ND	17000	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	17000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	17000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	17000	ug/kg	
85-01-8	Phenanthrene	ND	17000	ug/kg	
129-00-0	Pyrene	ND	17000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	17000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% b		37-125%
4165-62-2	Phenol-d5	0% b		42-125%
118-79-6	2,4,6-Tribromophenol	0% b		52-125%
4165-60-0	Nitrobenzene-d5	0% b		40-125%
321-60-8	2-Fluorobiphenyl	0% b		42-125%
1718-51-0	Terphenyl-d14	0% b		45-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
17301-23-4	Undecane, 2,6-dimethyl-	6.41	63000	ug/kg	JN
4292-75-5	Cyclohexane, hexyl-	6.68	58000	ug/kg	JN
5911-04-6	Nonane, 3-methyl-	6.84	130000	ug/kg	JN
629-50-5	Tridecane	7.06	110000	ug/kg	JN
629-59-4	Tetradecane	7.85	47000	ug/kg	JN
544-76-3	Hexadecane	9.52	42000	ug/kg	JN

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

ABN PPL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
629-78-7	Heptadecane	10.37	52000	ug/kg	JN
112-95-8	Eicosane	12.00	40000	ug/kg	JN
629-62-9	Pentadecane	14.24	60000	ug/kg	JN
630-06-8	Hexatriacontane	17.78	95000	ug/kg	JN
	unknown	18.94	79000	ug/kg	J
	unknown hydrocarbon	19.14	46000	ug/kg	J
	unknown hydrocarbon	20.04	41000	ug/kg	J
	unknown hydrocarbon	20.29	85000	ug/kg	J
	unknown	21.21	55000	ug/kg	J
	Total TIC, Semi-Volatile		1003000	ug/kg	

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17747.D	800	10/23/01	ME	10/19/01	OP4021	GOP677
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	36800	8600	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		66-130%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0608		
Lab Sample ID:	F11175-1	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
		Percent Solids:	78.8
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.46 B	0.55	0.35	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Cadmium	0.030 U	0.44	0.030	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Chromium	1.0 B	1.1	0.038	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Lead	5.7 B	11	0.13	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K007122.D	50	10/24/01	NAF	n/a	n/a	VK240
Run #2							

VOA PPL List

CAS No.	Compound	Result	RL	Units	Q
107-02-8	Acrolein	ND	710	ug/kg	
107-13-1	Acrylonitrile	ND	710	ug/kg	
71-43-2	Benzene	ND	350	ug/kg	
75-27-4	Bromodichloromethane	ND	350	ug/kg	
75-25-2	Bromoform	ND	350	ug/kg	
108-90-7	Chlorobenzene	ND	350	ug/kg	
75-00-3	Chloroethane	ND	350	ug/kg	
67-66-3	Chloroform	ND	350	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	710	ug/kg	
56-23-5	Carbon tetrachloride	ND	350	ug/kg	
75-34-3	1,1-Dichloroethane	ND	350	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	350	ug/kg	
107-06-2	1,2-Dichloroethane	ND	350	ug/kg	
78-87-5	1,2-Dichloropropane	ND	350	ug/kg	
124-48-1	Dibromochloromethane	ND	350	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	350	ug/kg	
541-73-1	m-Dichlorobenzene	ND	350	ug/kg	
95-50-1	o-Dichlorobenzene	ND	350	ug/kg	
106-46-7	p-Dichlorobenzene	ND	350	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	350	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	350	ug/kg	
100-41-4	Ethylbenzene	802	350	ug/kg	
74-83-9	Methyl bromide	ND	350	ug/kg	
74-87-3	Methyl chloride	ND	350	ug/kg	
75-09-2	Methylene chloride	ND	710	ug/kg	
71-55-6	1,1,1-Trichloroethane	249	350	ug/kg	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	350	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	350	ug/kg	
127-18-4	Tetrachloroethylene	296	350	ug/kg	J
108-88-3	Toluene	511	350	ug/kg	
79-01-6	Trichloroethylene	ND	350	ug/kg	
75-69-4	Trichlorofluoromethane	ND	350	ug/kg	
75-01-4	Vinyl chloride	ND	350	ug/kg	
1330-20-7	Xylene (total)	4920	1100	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

VOA PPL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-125%
2037-26-5	Toluene-D8	100%		75-125%
460-00-4	4-Bromofluorobenzene	96%		72-137%
17060-07-0	1,2-Dichloroethane-D4	97%		68-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-18-5	Decane	23.65	9400	ug/kg	JN
493-02-7	Naphthalene, decahydro-, trans-	26.34	8100	ug/kg	JN
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	26.84	11000	ug/kg	JN
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	27.12	12000	ug/kg	JN
119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	29.32	14000	ug/kg	JN
2050-24-0	Benzene, 1,3-diethyl-5-methyl-	29.53	9400	ug/kg	JN
3877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2-methyl	30.55	8600	ug/kg	JN
13065-07-1	Naphthalene, 1,2,3,4-tetrahydro-2,7-dime	32.94	8600	ug/kg	JN
90-12-0	Naphthalene, 1-methyl-	33.18	14000	ug/kg	JN
264-09-5	Benzocycloheptatriene	33.74	8100	ug/kg	JN
	Total TIC, Volatile		103200	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L009181.D	40	10/16/01	ME	10/16/01	OP3992	SL525
Run #2							

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	16000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	16000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	16000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	41000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	41000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	33000	ug/kg	
88-75-5	2-Nitrophenol	ND	16000	ug/kg	
100-02-7	4-Nitrophenol	ND	41000	ug/kg	
87-86-5	Pentachlorophenol	ND	41000	ug/kg	
108-95-2	Phenol	ND	16000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	16000	ug/kg	
83-32-9	Acenaphthene	ND	16000	ug/kg	
208-96-8	Acenaphthylene	ND	16000	ug/kg	
120-12-7	Anthracene	ND	16000	ug/kg	
92-87-5	Benzidine	ND	41000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	16000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	16000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	16000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	16000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	16000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	16000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	16000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	16000	ug/kg	
106-47-8	4-Chloroaniline	ND	16000	ug/kg	
218-01-9	Chrysene	ND	16000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	16000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	16000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	16000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	16000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	16000	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	16000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	16000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	16000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	16000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	16000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	33000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	16000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	16000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	16000	ug/kg	
84-66-2	Diethyl phthalate	ND	16000	ug/kg	
131-11-3	Dimethyl phthalate	ND	16000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	16000	ug/kg	
206-44-0	Fluoranthene	ND	16000	ug/kg	
86-73-7	Fluorene	ND	16000	ug/kg	
118-74-1	Hexachlorobenzene	ND	16000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	16000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	16000	ug/kg	
67-72-1	Hexachloroethane	ND	16000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	16000	ug/kg	
78-59-1	Isophorone	ND	16000	ug/kg	
91-20-3	Naphthalene	ND	16000	ug/kg	
98-95-3	Nitrobenzene	ND	16000	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	16000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	16000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	16000	ug/kg	
85-01-8	Phenanthrene	ND	16000	ug/kg	
129-00-0	Pyrene	ND	16000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	16000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		37-125%
4165-62-2	Phenol-d5	0% [b]		42-125%
118-79-6	2,4,6-Tribromophenol	0% [b]		52-125%
4165-60-0	Nitrobenzene-d5	0% [b]		40-125%
321-60-8	2-Fluorobiphenyl	0% [b]		42-125%
1718-51-0	Terphenyl-d14	0% [b]		45-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-18-5	Decane	4.99	31000	ug/kg	JN
1120-21-4	Undecane	5.65	110000	ug/kg	JN
	unknown	5.70	34000	ug/kg	J
62108-25-2	Decane, 2,6,7-trimethyl-	6.84	33000	ug/kg	JN
629-50-5	Tridecane	7.06	44000	ug/kg	JN
3891-98-3	Dodecane, 2,6,10-trimethyl-	7.65	37000	ug/kg	JN

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

ABN PPL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
629-59-4	Tetradecane	7.84	58000	ug/kg	JN
544-76-3	Hexadecane	9.52	38000	ug/kg	JN
629-78-7	Heptadecane	10.37	48000	ug/kg	JN
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.39	36000	ug/kg	JN
112-95-8	Eicosane	12.00	35000	ug/kg	JN
54833-23-7	Eicosane, 10-methyl-	14.24	44000	ug/kg	JN
630-06-8	Hexatriacontane	17.79	50000	ug/kg	JN
	unknown	18.94	38000	ug/kg	J
	unknown	20.30	42000	ug/kg	J
	Total TIC, Semi-Volatile		678000	ug/kg	

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17737.D	200	10/23/01	ME	10/19/01	OP4021	GOP677
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	26600	2000	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		66-130%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0506		
Lab Sample ID:	F11175-2	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
		Percent Solids:	80.4
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method
Arsenic	0.32 U	0.51	0.32	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Cadmium	0.028 U	0.41	0.028	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Chromium	2.0	1.0	0.036	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Lead	3.0 B	10	0.12	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	PCYS10SL0206		
Lab Sample ID:	F11175-3	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	78.6
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K007121.D	50	10/24/01	NAF	n/a	n/a	VK240
Run #2							

VOA PPL List

CAS No.	Compound	Result	RL	Units	Q
107-02-8	Acrolein	ND	760	ug/kg	
107-13-1	Acrylonitrile	ND	760	ug/kg	
71-43-2	Benzene	ND	380	ug/kg	
75-27-4	Bromodichloromethane	ND	380	ug/kg	
75-25-2	Bromoform	ND	380	ug/kg	
108-90-7	Chlorobenzene	ND	380	ug/kg	
75-00-3	Chloroethane	ND	380	ug/kg	
67-66-3	Chloroform	ND	380	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	760	ug/kg	
56-23-5	Carbon tetrachloride	ND	380	ug/kg	
75-34-3	1,1-Dichloroethane	ND	380	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	380	ug/kg	
107-06-2	1,2-Dichloroethane	ND	380	ug/kg	
78-87-5	1,2-Dichloropropane	ND	380	ug/kg	
124-48-1	Dibromochloromethane	ND	380	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	380	ug/kg	
541-73-1	m-Dichlorobenzene	ND	380	ug/kg	
95-50-1	o-Dichlorobenzene	ND	380	ug/kg	
106-46-7	p-Dichlorobenzene	ND	380	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	380	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	380	ug/kg	
100-41-4	Ethylbenzene	ND	380	ug/kg	
74-83-9	Methyl bromide	ND	380	ug/kg	
74-87-3	Methyl chloride	ND	380	ug/kg	
75-09-2	Methylene chloride	ND	760	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	380	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	380	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	380	ug/kg	
127-18-4	Tetrachloroethylene	ND	380	ug/kg	
108-88-3	Toluene	381	380	ug/kg	
79-01-6	Trichloroethylene	ND	380	ug/kg	
75-69-4	Trichlorofluoromethane	ND	380	ug/kg	
75-01-4	Vinyl chloride	ND	380	ug/kg	
1330-20-7	Xylene (total)	ND	1100	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0206		
Lab Sample ID:	F11175-3	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	78.6
Project:	CSS Panama City-N2834(CTO-0184)		

VOA PPL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-125%
2037-26-5	Toluene-D8	98%		75-125%
460-00-4	4-Bromofluorobenzene	106%		72-137%
17060-07-0	1,2-Dichloroethane-D4	116%		68-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
4951-40-0	2-Propenal, 3-(2,6,6-trimethyl-1-cyclohe	28.19	1000	ug/kg	JN
	Total TIC, Volatile		1000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0206		
Lab Sample ID:	F11175-3	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.6
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L009182.D	40	10/16/01	ME	10/16/01	OP3992	SL525
Run #2							

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	17000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	17000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	17000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	43000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	43000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	34000	ug/kg	
88-75-5	2-Nitrophenol	ND	17000	ug/kg	
100-02-7	4-Nitrophenol	ND	43000	ug/kg	
87-86-5	Pentachlorophenol	ND	43000	ug/kg	
108-95-2	Phenol	ND	17000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	17000	ug/kg	
83-32-9	Acenaphthene	ND	17000	ug/kg	
208-96-8	Acenaphthylene	ND	17000	ug/kg	
120-12-7	Anthracene	ND	17000	ug/kg	
92-87-5	Benzidine	ND	43000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	17000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	17000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	17000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	17000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	17000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	17000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	17000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	17000	ug/kg	
106-47-8	4-Chloroaniline	ND	17000	ug/kg	
218-01-9	Chrysene	ND	17000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	17000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	17000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	17000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	17000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	17000	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	17000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	17000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	17000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	17000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	17000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	34000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0206		
Lab Sample ID:	F11175-3	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.6
Project:	CSS Panama City-N2834(CTO-0184)		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	17000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	17000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	17000	ug/kg	
84-66-2	Diethyl phthalate	ND	17000	ug/kg	
131-11-3	Dimethyl phthalate	ND	17000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	17000	ug/kg	
206-44-0	Fluoranthene	ND	17000	ug/kg	
86-73-7	Fluorene	ND	17000	ug/kg	
118-74-1	Hexachlorobenzene	ND	17000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	17000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	17000	ug/kg	
67-72-1	Hexachloroethane	ND	17000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	17000	ug/kg	
78-59-1	Isophorone	ND	17000	ug/kg	
91-20-3	Naphthalene	ND	17000	ug/kg	
98-95-3	Nitrobenzene	ND	17000	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	17000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	17000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	17000	ug/kg	
85-01-8	Phenanthrene	ND	17000	ug/kg	
129-00-0	Pyrene	ND	17000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	17000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		37-125%
4165-62-2	Phenol-d5	0% [b]		42-125%
118-79-6	2,4,6-Tribromophenol	0% [b]		52-125%
4165-60-0	Nitrobenzene-d5	0% [b]		40-125%
321-60-8	2-Fluorobiphenyl	0% [b]		42-125%
1718-51-0	Terphenyl-d14	0% [b]		45-135%

CAS No.	Tentatively Identified Compounds [c]	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.
(c) No TICS detected, unresolved petroleum hump.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0206		
Lab Sample ID:	F11175-3	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
Method:	FLORIDA-PRO SW846 3550B	Percent Solids:	78.6
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17738.D	200	10/23/01	ME	10/19/01	OP4021	GOP677
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	10100	2100	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		66-130%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10SL0206		
Lab Sample ID:	F11175-3	Date Sampled:	10/10/01
Matrix:	SO - Soil	Date Received:	10/11/01
		Percent Solids:	78.6
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.40 U	0.64	0.40	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Cadmium	0.034 U	0.51	0.034	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Chromium	1.4	1.3	0.045	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B
Lead	2.5 B	13	0.15	mg/kg	1	10/15/01	10/16/01	JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	PCYS10R1010		
Lab Sample ID:	F11175-4	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006611.D	1	10/16/01	JG	n/a	n/a	VB284
Run #2							

VOA PPL List

CAS No.	Compound	Result	RL	Units	Q
107-02-8	Acrolein	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10R1010		
Lab Sample ID:	F11175-4	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA PPL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	91%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) No TICs detected.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10R1010		
Lab Sample ID:	F11175-4	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L009206.D	1	10/18/01	ME	10/15/01	OP4000	SL527
Run #2							

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
92-87-5	Benzidine	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10R1010		
Lab Sample ID:	F11175-4	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
78-59-1	Isophorone	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	95%		35-140%
4165-60-0	Nitrobenzene-d5	84%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%
1718-51-0	Terphenyl-d14	93%		49-126%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) No TICS detected.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10R1010		
Lab Sample ID:	F11175-4	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF03154.D	1	10/17/01	SKW	10/16/01	OP4003	GZF152
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10R1010		
Lab Sample ID:	F11175-4	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	3.2 U	10	3.2	ug/l	1	10/15/01	10/15/01	JK	SW846 6010B
Cadmium	0.27 U	5.0	0.27	ug/l	1	10/15/01	10/15/01	JK	SW846 6010B
Chromium	9.4 B	10	0.35	ug/l	1	10/15/01	10/15/01	JK	SW846 6010B
Lead	1.3 B	5.0	1.2	ug/l	1	10/15/01	10/15/01	JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	PCYS10GL0710		
Lab Sample ID:	F11175-5	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006612.D	1	10/16/01	JG	n/a	n/a	VB284
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PCYS10GL0710		
Lab Sample ID:	F11175-5	Date Sampled:	10/10/01
Matrix:	AQ - Ground Water	Date Received:	10/11/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	92%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. WALKER** **DATE: DECEMBER 5, 2001**

FROM: **SETH STAFFEN** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / SVOA / TPH**
CTO 184 – CSS PANAMA CITY
SDG: F11175

SAMPLES: 2/Aqueous/VOA

PCYS10GL0710 PCYS10R1010

1/Aqueous/SVOA/TPH

PCYS10R1010

3/Soil/VOA/SVOA/TPH

PCYS10SL0206 PCYS10SL0506 PCYS10SL0608

OVERVIEW

The sample sets for CTO 184, SDG: F11175, CSS Panama City; Florida consists of two (2) aqueous environmental samples and three (3) solid environmental samples. The samples were analyzed for Target Compound List (TCL) volatile organic compounds, TCL semivolatile organic compounds, and total petroleum hydrocarbon according to the above listing. No field duplicate pairs were included in this SDG.

The samples were collected by Tetra Tech, NUS on October 10, 2001 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Methods 8260B, 8270C, and Florida-PRO analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
• Initial and continuing calibration
* • Blank results
• Surrogate spike recoveries
* • Internal standard recoveries
* • Blank Spike/Blank Spike Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
* • Detection Limits
* • Compound Quantitation
* • Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

VOLATILE FRACTION

The initial calibration on 10/09/01 contained RRFs that were less than the 0.05 quality control limit for acrolein and 2-chloroethyl-vinyl ether. The aforementioned compounds were rejected, UR, in sample PCYS10R1010.

The continuing calibration on 10/16/01 at 1056 contained RRFs that were less than the 0.05 quality control limit for acrolein and 2-chloroethyl-vinyl ether. The aforementioned compounds were rejected, UR, in sample PCYS10R1010.

The continuing calibration on 10/16/01 at 1056 contained %Ds that were greater than the 25% quality control limit for acrolein and 2-chloroethyl-vinyl ether. The aforementioned compounds were rejected for an RRF noncompliance.

The blank spike %R was greater than the upper quality control limit for acetone and methyl ethyl ketone. No qualification action was taken.

Samples PCYS10SL0206, PCYS10SL0506, and PCYS10SL0608 were analyzed at 50X dilutions. Thus causing elevated reporting limits.

The initial calibration on 10/22/01 contained RRFs that were less than the 0.05 quality control limit for acrolein and acrylonitrile. The aforementioned compounds were rejected, UR, in soil samples.

The initial calibration on 10/22/01 contained a %D that was greater than the 30% quality control limit for methylene chloride. No qualification action was taken because the reported results were nondetects.

The continuing calibration on 10/24/01 at 1154 contained RRFs that were less than the 0.05 quality control limit for acrolein and acrylonitrile. The aforementioned compounds were rejected, UR, in the associated samples.

The continuing calibration on 10/24/01 at 1154 contained a %D that was greater than the 25% quality control limit for bromomethane. Only nondetected results were reported. Therefore, the bromomethane was qualified as estimated, UJ, in the associated samples.

The blank spike %R was less than the lower quality control limit for carbon tetrachloride. No qualification action was taken.

The Matrix Spike Duplicate %R was greater than the upper quality control limit for trichlorofluoromethane. No qualification action was taken because the MS %R was compliant.

The MS/MSD RPD exceeded the quality control limit for 1,1-dichloroethylene. No qualification action was taken based on RPD noncompliance.

SEMIVOLATILE FRACTION

The initial calibration on 10/12/01 contained %RSDs that were greater than the 30% quality control limit for 2,4-dinitrophenol and benzidine. No qualification action was taken because the %RSD were < 50% and the reported results were nondetects.

The continuing calibration on 10/16/01 at 1702 contained %Ds that were greater than the 25% quality control limit for 2,4-dinitrophenol and benzidine. The aforementioned compounds were qualified as estimated, UJ, in the associated samples.

The continuing calibration on 10/18/01 at 1306 contained %Ds that were greater than the 25% quality control limit for 2,4-dinitrophenol and benzidine. The aforementioned compounds were qualified as estimated, UJ, in the associated samples.

Samples PCYS10SL0206, PCYS10SL0506, and PCYS10SL0608 were all analyzed at a 40X dilution. The 40X dilution caused elevated reporting limits. No positive results were reported. Samples contained high concentrations of hydrocarbons.

Surrogates were diluted out in samples PCYS10SL0206, PCYS10SL0506, and PCYS10SL0608. Therefore, an evaluation of extraction efficiency could not be conducted.

The aqueous MSD %Rs for di-n-octyl phthalate, bis(2-ethylhexyl) phthalate, and butyl benzyl phthalate exceeded the upper quality control limit. No action was taken because a nondetected result was reported in the unspiked sample.

TPH FRACTION

Samples PCYS10SL0206 and PCYS10SL0506 were analyzed at a 200X dilution and sample PCYS10SL0608 were analyzed at an 800X dilutions. Thus causing elevated reporting limits.

The surrogate recoveries for samples PCYS10SL0206, PCYS10SL0506, and PCYS10SL0608 were zero, due to dilution. No qualification action was taken.

ADDITIONAL COMMENTS

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory performance: Several compounds did not meet continuing calibration %D quality control criteria.

Other Factors Affecting Data Quality: Soil samples were diluted thus raising reporting limits.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Seth Staffen

Environmental Scientist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10GL0710			PCYS10R1010								
SAMPLE DATE:	10/10/01			10/10/01			/ /			/ /		
LABORATORY ID:	F11175-5			F11175-4								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U							
1,1,2,2-TETRACHLOROETHANE	2	U		2	U							
1,1,2-TRICHLOROETHANE	2	U		2	U							
1,1-DICHLOROETHANE	2	U		2	U							
1,1-DICHLOROETHENE	2	U		2	U							
1,2-DICHLOROBENZENE				2	U							
1,2-DICHLOROETHANE	2	U		2	U							
1,2-DICHLOROPROPANE	2	U		2	U							
1,3-DICHLOROBENZENE				2	U							
1,4-DICHLOROBENZENE				2	U							
2-BUTANONE	10	U										
2-CHLOROETHYL VINYL ETHER				5	UR	C						
2-HEXANONE	10	U										
4-METHYL-2-PENTANONE	10	U										
ACETONE	50	U										
ACROLEIN				10	UR	C						
ACRYLONITRILE				10	U							
BENZENE	1	U		1	U							
BROMODICHLOROMETHANE	2	U		2	U							
BROMOFORM	2	U		2	U							
BROMOMETHANE	5	U		5	U							
CARBON DISULFIDE	10	U										
CARBON TETRACHLORIDE	2	U		2	U							
CHLOROBENZENE	2	U		2	U							
CHLORODIBROMOMETHANE	2	U		2	U							
CHLOROETHANE	5	U		5	U							
CHLOROFORM	2	U		2	U							
CHLOROMETHANE	5	U		5	U							
CIS-1,2-DICHLOROETHENE	2	U										
CIS-1,3-DICHLOROPROPENE	2	U		2	U							
ETHYLBENZENE	2	U		2	U							

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10GL0710	PCYS10R1010		
SAMPLE DATE:	10/10/01	10/10/01	/ /	/ /
LABORATORY ID:	F11175-5	F11175-4		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYLENE CHLORIDE	5	U		5	U							
STYRENE	2	U										
TETRACHLOROETHENE	2	U		2	U							
TOLUENE	2	U		2	U							
TOTAL XYLENES	6	U		6	U							
TRANS-1,2-DICHLOROETHENE	2	U		2	U							
TRANS-1,3-DICHLOROPROPENE	2	U		2	U							
TRICHLOROETHENE	2	U		2	U							
TRICHLOROFLUOROMETHANE				5	U							
VINYL CHLORIDE	1	U		1	U							

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206	PCYS10SL0506	PCYS10SL0608	
SAMPLE DATE:	10/10/01	10/10/01	10/10/01	/ /
LABORATORY ID:	F11175-3	F11175-2	F11175-1	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	78.6 %	80.4 %	78.8 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	380	U		249	J	P	350	U				
1,1,2,2-TETRACHLOROETHANE	380	U		350	U		350	U				
1,1,2-TRICHLOROETHANE	380	U		350	U		350	U				
1,1-DICHLOROETHANE	380	U		350	U		350	U				
1,1-DICHLOROETHENE	380	U		350	U		350	U				
1,2-DICHLOROBENZENE	380	U		350	U		350	U				
1,2-DICHLOROETHANE	380	U		350	U		350	U				
1,2-DICHLOROPROPANE	380	U		350	U		350	U				
1,3-DICHLOROBENZENE	380	U		350	U		350	U				
1,4-DICHLOROBENZENE	380	U		350	U		350	U				
2-CHLOROETHYL VINYL ETHER	760	U		710	U		710	U				
ACROLEIN	760	UR	C	710	UR	C	710	UR	C			
ACRYLONITRILE	760	UR	C	710	UR	C	710	UR	C			
BENZENE	380	U		350	U		350	U				
BROMODICHLOROMETHANE	380	U		350	U		350	U				
BROMOFORM	380	U		350	U		350	U				
BROMOMETHANE	380	UJ	C	350	UJ	C	350	UJ	C			
CARBON TETRACHLORIDE	380	U		350	U		350	U				
CHLOROBENZENE	380	U		350	U		350	U				
CHLORODIBROMOMETHANE	380	U		350	U		350	U				
CHLOROETHANE	380	U		350	U		350	U				
CHLOROFORM	380	U		350	U		350	U				
CHLOROMETHANE	380	U		350	U		350	U				
CIS-1,3-DICHLOROPROPENE	380	U		350	U		350	U				
ETHYLBENZENE	380	U		802			350	U				
METHYLENE CHLORIDE	760	U		710	U		710	U				
TETRACHLOROETHENE	380	U		296	J	P	344	J	P			
TOLUENE	381			511			350	U				
TOTAL XYLENES	1100	U		4920			1000	U				
TRANS-1,2-DICHLOROETHENE	380	U		350	U		350	U				
TRANS-1,3-DICHLOROPROPENE	380	U		350	U		350	U				

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206	PCYS10SL0506	PCYS10SL0608	
SAMPLE DATE:	10/10/01	10/10/01	10/10/01	/ /
LABORATORY ID:	F11175-3	F11175-2	F11175-1	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	78.6 %	80.4 %	78.8 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRICHLOROETHENE	380	U		350	U		350	U				
TRICHLOROFLUOROMETHANE	380	U		350	U		350	U				
VINYL CHLORIDE	380	U		350	U		350	U				

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10R1010										
SAMPLE DATE:	10/10/01			/ /			/ /			/ /	
LABORATORY ID:	F11175-4										
QC_TYPE:	NORMAL										
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %	
UNITS:	UG/L										
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES											
1,2,4-TRICHLOROBENZENE	5	U									
1,2-DICHLOROBENZENE	5	U									
1,2-DIPHENYLHYDRAZINE	5	U									
1,3-DICHLOROBENZENE	5	U									
1,4-DICHLOROBENZENE	5	U									
2,2'-OXYBIS(1-CHLOROPROPANE)	5	U									
2,4,6-TRICHLOROPHENOL	5	U									
2,4-DICHLOROPHENOL	5	U									
2,4-DIMETHYLPHENOL	25	U									
2,4-DINITROPHENOL	25	UJ	C								
2,4-DINITROTOLUENE	5	U									
2,6-DINITROTOLUENE	5	U									
2-CHLORONAPHTHALENE	5	U									
2-CHLOROPHENOL	5	U									
2-NITROPHENOL	5	U									
3,3'-DICHLOROBENZIDINE	10	U									
4,6-DINITRO-2-METHYLPHENOL	10	U									
4-BROMOPHENYL PHENYL ETHER	5	U									
4-CHLORO-3-METHYLPHENOL	5	U									
4-CHLOROANILINE	5	U									
4-CHLOROPHENYL PHENYL ETHER	5	U									
4-NITROPHENOL	25	U									
ACENAPHTHENE	5	U									
ACENAPHTHYLENE	5	U									
ANTHRACENE	5	U									
BENZIDINE	25	UJ	C								
BENZO(A)ANTHRACENE	5	U									
BENZO(A)PYRENE	5	U									
BENZO(B)FLUORANTHENE	5	U									
BENZO(G,H,I)PERYLENE	5	U									
BENZO(K)FLUORANTHENE	5	U									

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10R1010										
SAMPLE DATE:	10/10/01			/ /			/ /			/ /		
LABORATORY ID:	F11175-4										
QC_TYPE:	NORMAL										
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L										
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BIS(2-CHLOROETHOXY)METHANE	5	U										
BIS(2-CHLOROETHYL)ETHER	5	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U										
BUTYL BENZYL PHTHALATE	5	U										
CHRYSENE	5	U										
DI-N-BUTYL PHTHALATE	5	U										
DI-N-OCTYL PHTHALATE	5	U										
DIBENZO(A,H)ANTHRACENE	5	U										
DIETHYL PHTHALATE	5	U										
DIMETHYL PHTHALATE	5	U										
FLUORANTHENE	5	U										
FLUORENE	5	U										
HEXACHLOROBENZENE	5	U										
HEXACHLOROBUTADIENE	5	U										
HEXACHLOROCYCLOPENTADIENE	5	U										
HEXACHLOROETHANE	5	U										
INDENO(1,2,3-CD)PYRENE	5	U										
ISOPHORONE	5	U										
N-NITROSO-DI-N-PROPYLAMINE	5	U										
N-NITROSODIMETHYLAMINE	5	U										
N-NITROSODIPHENYLAMINE	5	U										
NAPHTHALENE	5	U										
NITROBENZENE	5	U										
PENTACHLOROPHENOL	25	U										
PHENANTHRENE	5	U										
PHENOL	5	U										
PYRENE	5	U										

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206			PCYS10SL0506			PCYS10SL0608				
SAMPLE DATE:	10/10/01			10/10/01			10/10/01			/ /	
LABORATORY ID:	F11175-3			F11175-2			F11175-1				
QC_TYPE:	NORMAL			NORMAL			NORMAL				
% SOLIDS:	78.6 %			80.4 %			78.8 %			100.0 %	
UNITS:	UG/KG			UG/KG			UG/KG				
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	17000	U		16000	U		17000	U				
1,2-DICHLOROBENZENE	17000	U		16000	U		17000	U				
1,2-DIPHENYLHYDRAZINE	17000	U		16000	U		17000	U				
1,3-DICHLOROBENZENE	17000	U		16000	U		17000	U				
1,4-DICHLOROBENZENE	17000	U		16000	U		17000	U				
2,2'-OXYBIS(1-CHLOROPROPANE)	17000	U		16000	U		17000	U				
2,4,6-TRICHLOROPHENOL	17000	U		16000	U		17000	U				
2,4-DICHLOROPHENOL	17000	U		16000	U		17000	U				
2,4-DIMETHYLPHENOL	43000	U		41000	U		42000	U				
2,4-DINITROPHENOL	43000	UJ	C	41000	UJ	C	42000	UJ	C			
2,4-DINITROTOLUENE	17000	U		16000	U		17000	U				
2,6-DINITROTOLUENE	17000	U		16000	U		17000	U				
2-CHLORONAPHTHALENE	17000	U		16000	U		17000	U				
2-CHLOROPHENOL	17000	U		16000	U		17000	U				
2-NITROPHENOL	17000	U		16000	U		17000	U				
3,3'-DICHLOROBENZIDINE	34000	U		33000	U		34000	U				
4,6-DINITRO-2-METHYLPHENOL	34000	U		33000	U		34000	U				
4-BROMOPHENYL PHENYL ETHER	17000	U		16000	U		17000	U				
4-CHLORO-3-METHYLPHENOL	17000	U		16000	U		17000	U				
4-CHLOROANILINE	17000	U		16000	U		17000	U				
4-CHLOROPHENYL PHENYL ETHER	17000	U		16000	U		17000	U				
4-NITROPHENOL	43000	U		41000	U		42000	U				
ACENAPHTHENE	17000	U		16000	U		17000	U				
ACENAPHTHYLENE	17000	U		16000	U		17000	U				
ANTHRACENE	17000	U		16000	U		17000	U				
BENZIDINE	43000	UJ	C	41000	UJ	C	42000	UJ	C			
BENZO(A)ANTHRACENE	17000	U		16000	U		17000	U				
BENZO(A)PYRENE	17000	U		16000	U		17000	U				
BENZO(B)FLUORANTHENE	17000	U		16000	U		17000	U				
BENZO(G,H,I)PERYLENE	17000	U		16000	U		17000	U				
BENZO(K)FLUORANTHENE	17000	U		16000	U		17000	U				

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206	PCYS10SL0506	PCYS10SL0608	
SAMPLE DATE:	10/10/01	10/10/01	10/10/01	/ /
LABORATORY ID:	F11175-3	F11175-2	F11175-1	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	78.6 %	80.4 %	78.8 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BIS(2-CHLOROETHOXY)METHANE	17000	U		16000	U		17000	U				
BIS(2-CHLOROETHYL)ETHER	17000	U		16000	U		17000	U				
BIS(2-ETHYLHEXYL)PHTHALATE	17000	U		16000	U		17000	U				
BUTYL BENZYL PHTHALATE	17000	U		16000	U		17000	U				
CHRYSENE	17000	U		16000	U		17000	U				
DI-N-BUTYL PHTHALATE	17000	U		16000	U		17000	U				
DI-N-OCTYL PHTHALATE	17000	U		16000	U		17000	U				
DIBENZO(A,H)ANTHRACENE	17000	U		16000	U		17000	U				
DIETHYL PHTHALATE	17000	U		16000	U		17000	U				
DIMETHYL PHTHALATE	17000	U		16000	U		17000	U				
FLUORANTHENE	17000	U		16000	U		17000	U				
FLUORENE	17000	U		16000	U		17000	U				
HEXACHLOROBENZENE	17000	U		16000	U		17000	U				
HEXACHLOROBUTADIENE	17000	U		16000	U		17000	U				
HEXACHLOROCYCLOPENTADIENE	17000	U		16000	U		17000	U				
HEXACHLOROETHANE	17000	U		16000	U		17000	U				
INDENO(1,2,3-CD)PYRENE	17000	U		16000	U		17000	U				
ISOPHORONE	17000	U		16000	U		17000	U				
N-NITROSO-DI-N-PROPYLAMINE	17000	U		16000	U		17000	U				
N-NITROSODIMETHYLAMINE	17000	U		16000	U		17000	U				
N-NITROSODIPHENYLAMINE	17000	U		16000	U		17000	U				
NAPHTHALENE	17000	U		16000	U		17000	U				
NITROBENZENE	17000	U		16000	U		17000	U				
PENTACHLOROPHENOL	43000	U		41000	U		42000	U				
PHENANTHRENE	17000	U		16000	U		17000	U				
PHENOL	17000	U		16000	U		17000	U				
PYRENE	17000	U		16000	U		17000	U				

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10R1010										
SAMPLE DATE:	10/10/01			/ /			/ /			/ /	
LABORATORY ID:	F11175-4										
QC_TYPE:	NORMAL										
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %	
UNITS:	MG/L										
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.25	U										

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206			PCYS10SL0506			PCYS10SL0608				
SAMPLE DATE:	10/10/01			10/10/01			10/10/01			/ /	
LABORATORY ID:	F11175-3			F11175-2			F11175-1				
QC_TYPE:	NORMAL			NORMAL			NORMAL				
% SOLIDS:	78.6 %			80.4 %			78.8 %			100.0 %	
UNITS:	MG/KG			MG/KG			MG/KG				
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	10100			26600			36800					

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**WALKER, G.**	**DATE:**	**NOVEMBER 30, 2001**
FROM:	**CATHERINE NORONHA**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION**
CTO-184 CSS PANAMA CITY–TAL METALS
SAMPLE DELIVERY GROUP (SDG) – F11175

SAMPLES: 1/Aqueous/

PCYS10R1010

3/Soil
PCYS10SL0206 PCYS10SL0506 PCYS10SL0608

Overview

The sample set for CTO 184, CSS PANAMA CITY, SDG F11175, consists of one (1) aqueous and three (3) soil environmental samples.

All samples were analyzed for TAL metals. The samples were collected by TetraTech NUS on October 10, 2001 and analyzed by ACCUTTEST Laboratory under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metal samples were analyzed using EPA method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
• Laboratory Blank Analyses
* • ICP Interference Check Sample
* • Matrix Spike Recovery
* • Laboratory Control Sample
* • Laboratory Duplicates
* • ICP Serial Dilutions
* • Detection Limits
* • Sample Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Arsenic	3.7µg/L	0.31mg/kg
Cadmium	1.1µg/L	5.5 µg/L or 0.55g/kg
Chromium(1)	1.4 µg/L	7.0 µg/L
Chromium(2)	0.094 mg/kg	0.47 mg/kg
Lead	1.5 µg/L	7.5µg/L or 0.75 mg/kg

(1) Maximum concentration from a soil preparation blank.

An action level of 5X the maximum concentration were used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors were taken into consideration when evaluation for blank contamination. Positive results for arsenic and lead were qualified as non-detected.

Executive Summary

Laboratory Performance: Laboratory Performance: Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Catherine Noronha
Tetra Tech NUS
Catherine Noronha
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206	PCYS10SL0506	PCYS10SL0608	
SAMPLE DATE:	10/10/01	10/10/01	10/10/01	/ /
LABORATORY ID:	F11175-3	F11175-2	F11175-1	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	78.6 %	80.4 %	78.8 %	100.0 %
UNITS:	MG/KG	MG/KG	MG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.40	U		0.32	U		0.46	U	A			
CADMIUM	0.03	U		0.03	U		0.03	U				
CHROMIUM	1.4			2.0			1.0					
LEAD	2.5			3.0			5.7					

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10R1010											
SAMPLE DATE:	10/10/01			/ /			/ /			/ /		
LABORATORY ID:	F11175-4											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	3.2	U										
CADMIUM	0.27	U										
CHROMIUM	9.4											
LEAD	1.3	U	A									

Data Qualifier Key:

U	-	Value is a nondetect as reported by the laboratory.
B	-	Positive result is considered to be an artifact of blank contamination and should not be considered present.
K	-	Positive result is considered biased high, "K", as a result of technical noncompliances.
L	-	Positive result is considered biased low, "L", as a result of technical noncompliances.
UL	-	Nondetected result is considered biased low, "UL", as a result of technical noncompliances.
J	-	Positive result is considered estimated, "J", as a result of technical noncompliances.

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO184-CSS PANAMA CITY
SOIL DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10SL0206			PCYS10SL0506			PCYS10SL0608					
SAMPLE DATE:	10/10/01			10/10/01			10/10/01			/ /		
LABORATORY ID:	F11175-3			F11175-2			F11175-1					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	78.6 %			80.4 %			78.8 %			100.0 %		
UNITS:	MG/KG			MG/KG			MG/KG					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.40	U		0.32	U		0.46	U	A			
CADMIUM	0.03	U		0.03	U		0.03	U				
CHROMIUM	1.4			2.0			1.0					
LEAD	2.5			3.0			5.7					

CTO184-CSS PANAMA CITY
WATER DATA
Accutest, NJ
SDG: F11175

SAMPLE NUMBER:	PCYS10R1010											
SAMPLE DATE:	10/10/01			/ /			/ /			/ /		
LABORATORY ID:	F11175-4											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	3.2	U										
CADMIUM	0.27	U										
CHROMIUM	9.4											
LEAD	1.3	U	A									

Southeast ACCUTEST Laboratories

10/02/02

Technical Report for

Tetra-Tech, NUS

CSS Panama City-N2834(CTO-0184)

WORK RELEASE#184-PC-2

Accutest Job Number: F12863

Report to:

Tetra Tech, NUS Corporate

smithsi@ttnus.com

ATTN: Suzanne Smith

Total number of pages in report: 174

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Tetra-Tech, NUS

Job No: F12863

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#184-PC-2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12863-1	04/10/02	08:43	MTA	04/11/02	AQ	Ground Water	13GLM06S01
F12863-2	04/10/02	09:37	MTA	04/11/02	AQ	Ground Water	13GLM06I01
F12863-3	04/10/02	09:37	MTA	04/11/02	AQ	Ground Water	13GLM06I01D
F12863-4	04/10/02	11:55	MTA	04/11/02	AQ	Ground Water	13GLM015S01
F12863-5	04/10/02	12:37	MTA	04/11/02	AQ	Ground Water	13GLM015I01
F12863-6	04/10/02	15:05	MTA	04/11/02	AQ	Ground Water	13GLM016S01
F12863-7	04/09/02	11:20	MTA	04/11/02	AQ	Ground Water	13GLM04I01
F12863-8	04/09/02	10:57	MTA	04/11/02	AQ	Ground Water	13GLM04S01
F12863-9	04/09/02	13:25	MTA	04/11/02	AQ	Ground Water	13GLM012I01
F12863-10	04/09/02	16:55	MTA	04/11/02	AQ	Ground Water	13GLM014I01
F12863-11	04/09/02	16:00	MTA	04/11/02	AQ	Ground Water	13GLM05I01
F12863-12	04/09/02	16:45	MTA	04/11/02	AQ	Ground Water	13GLM05S01
F12863-13	04/09/02	10:30	MTA	04/11/02	AQ	Ground Water	13GLM011I01

Sample Summary
(continued)

Tetra-Tech, NUS

Job No: F12863

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#184-PC-2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F12863-14	04/09/02	11:20	MTA	04/11/02	AQ	Ground Water	13GLM011S01
F12863-15	04/10/02	12:00	MTA	04/11/02	AQ	Ground Water	13GLM13S01
F12863-16	04/10/02	12:30	MTA	04/11/02	AQ	Ground Water	13GLM13I01
F12863-17	04/10/02	09:30	MTA	04/11/02	AQ	Ground Water	13GLM07I01
F12863-18	04/10/02	08:45	MTA	04/11/02	AQ	Ground Water	13GLM07S01
F12863-19	04/10/02	15:15	MTA	04/11/02	AQ	Ground Water	13GLM18S01

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015922.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	12.6	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009500.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		20-125%
4165-62-2	Phenol-d5	31%		10-125%
118-79-6	2,4,6-Tribromophenol	79%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	77%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008364.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	7.66	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010598.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	71%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	3010	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	2100 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	1.2 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2980 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	9150	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.44	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	17.2	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015911.D	1	04/12/02	KW	n/a	n/a	VG496
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.8	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	8.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.8	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009501.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		20-125%
4165-62-2	Phenol-d5	35%		10-125%
118-79-6	2,4,6-Tribromophenol	86%		35-140%
4165-60-0	Nitrobenzene-d5	80%		46-125%
321-60-8	2-Fluorobiphenyl	78%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008366.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	158	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010623.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.99	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.1 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	1670	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1390 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	9.4 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2410 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4680 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	9.2	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015912.D	1	04/12/02	KW	n/a	n/a	VG496
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	4.8	5.0	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	12.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.3	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009502.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
98-86-2	Acetophenone	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
1912-24-9	Atrazine	ND	5.5	ug/l	
100-52-7	Benzaldehyde	ND	28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
105-60-2	Caprolactam	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		20-125%
4165-62-2	Phenol-d5	36%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	84%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008367.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	93.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010624.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.1	4.4	ug/l	J
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	69%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.5 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	1660	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1380 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	9.4 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2410 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4740 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	9.6	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015923.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	12.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	4.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009503.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		20-125%
4165-62-2	Phenol-d5	36%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	83%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008368.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	0.75	0.50	ug/l	J
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010601.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	73%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	30200	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	2820 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	2.1 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2010 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	10700	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	23.3	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	3.5	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	24.6	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	15.6	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015926.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	3.6	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009504.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	88%		35-140%
4165-60-0	Nitrobenzene-d5	84%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008361.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	141	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010602.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.1	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	0.62	2.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	61%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.1 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	1380	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	820 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	12.5 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2460 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	5210	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	10.8	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015927.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.4	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009505.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	39%		10-125%
118-79-6	2,4,6-Tribromophenol	89%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	84%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008362.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	194	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010604.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	5930	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	3970 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	2.2 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	4580 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	12400	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	26.8	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.57	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	15.0	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015928.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	4.8	5.0	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	10.7	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.3	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009506.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	83%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008347.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	300	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010605.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2	AA010625.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	980 ml	1.0 ml

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.6	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	17% [b]	17%	33-141%
92-94-4	p-Terphenyl	18% [b]	18%	31-122%

(a) Confirmed by GC/MS, 8270 extract ran in SIM mode.
(b) Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9.3 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	4960	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1290 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	12.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	3140 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	3720 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	13.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015929.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009507.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	92%		35-140%
4165-60-0	Nitrobenzene-d5	89%		46-125%
321-60-8	2-Fluorobiphenyl	86%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008348.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010606.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	22400	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	730 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	29.6	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2280 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	3410 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.32	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	21.5	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.4	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015930.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	6.5	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.2	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009508.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	93%		35-140%
4165-60-0	Nitrobenzene-d5	93%		46-125%
321-60-8	2-Fluorobiphenyl	86%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	86%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008350.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	527	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010607.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	4.3	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	1.4	2.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		33-141%
92-94-4	p-Terphenyl	54%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9.6 B	10	2.8	ug/l	1	04/12/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	4750	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1650 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	32.2	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	3700 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4460 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	11.0	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015931.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.7	5.0	ug/l	
71-43-2	Benzene	3.9	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	27.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	18.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.9	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	4.9	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.7	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009509.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		20-125%
4165-62-2	Phenol-d5	36%		10-125%
118-79-6	2,4,6-Tribromophenol	88%		35-140%
4165-60-0	Nitrobenzene-d5	85%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008351.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	210	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010626.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	1.0	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	311 B	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	368 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	19.6	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1750 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4400 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	10.2	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015932.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009510.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		20-125%
4165-62-2	Phenol-d5	37%		10-125%
118-79-6	2,4,6-Tribromophenol	88%		35-140%
4165-60-0	Nitrobenzene-d5	86%		46-125%
321-60-8	2-Fluorobiphenyl	83%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008357.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	18.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010609.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	3710	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	935 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	5.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1110 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	3250 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.2	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015933.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009511.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		20-125%
4165-62-2	Phenol-d5	37%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	85%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008358.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	4.39	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010610.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	126%		33-141%
92-94-4	p-Terphenyl	128%		31-122%

(a) Suspected double surrogate; however, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	7110	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	553 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	0.16 U	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1100 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	1990 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.0	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015934.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.3	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	2.2	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009512.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	6.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	6.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	30	ug/l	
51-28-5	2,4-Dinitrophenol	ND	30	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	12	ug/l	
95-48-7	2-Methylphenol	ND	6.0	ug/l	
	3&4-Methylphenol	ND	6.0	ug/l	
88-75-5	2-Nitrophenol	ND	6.0	ug/l	
100-02-7	4-Nitrophenol	ND	30	ug/l	
87-86-5	Pentachlorophenol	ND	30	ug/l	
108-95-2	Phenol	ND	6.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.0	ug/l	
83-32-9	Acenaphthene	ND	6.0	ug/l	
208-96-8	Acenaphthylene	ND	6.0	ug/l	
98-86-2	Acetophenone	ND	6.0	ug/l	
120-12-7	Anthracene	ND	6.0	ug/l	
1912-24-9	Atrazine	ND	6.0	ug/l	
100-52-7	Benzaldehyde	ND	30	ug/l	
56-55-3	Benzo(a)anthracene	ND	6.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	6.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	6.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	6.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	6.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	6.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	6.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	6.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	6.0	ug/l	
106-47-8	4-Chloroaniline	ND	6.0	ug/l	
105-60-2	Caprolactam	ND	6.0	ug/l	
86-74-8	Carbazole	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	6.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	6.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	6.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	6.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	6.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	6.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	6.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	12	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	6.0	ug/l	
132-64-9	Dibenzofuran	ND	6.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	6.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	6.0	ug/l	
84-66-2	Diethyl phthalate	ND	6.0	ug/l	
131-11-3	Dimethyl phthalate	ND	6.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	6.0	ug/l	
206-44-0	Fluoranthene	ND	6.0	ug/l	
86-73-7	Fluorene	ND	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	6.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	6.0	ug/l	
67-72-1	Hexachloroethane	ND	6.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	6.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	6.0	ug/l	
88-74-4	2-Nitroaniline	ND	6.0	ug/l	
99-09-2	3-Nitroaniline	ND	6.0	ug/l	
100-01-6	4-Nitroaniline	ND	6.0	ug/l	
91-20-3	Naphthalene	ND	6.0	ug/l	
98-95-3	Nitrobenzene	ND	6.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	6.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.0	ug/l	
85-01-8	Phenanthrene	ND	6.0	ug/l	
129-00-0	Pyrene	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		20-125%
4165-62-2	Phenol-d5	42%		10-125%
118-79-6	2,4,6-Tribromophenol	89%		35-140%
4165-60-0	Nitrobenzene-d5	83%		46-125%
321-60-8	2-Fluorobiphenyl	84%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008359.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	170	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010612.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		33-141%
92-94-4	p-Terphenyl	76%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	6580	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	750 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	9.5 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2340 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4570 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	6.2	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015935.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	17.2	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.7	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	1.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009513.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	96%		35-140%
4165-60-0	Nitrobenzene-d5	89%		46-125%
321-60-8	2-Fluorobiphenyl	88%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008360.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	734	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010613.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		33-141%
92-94-4	p-Terphenyl	72%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	17100	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1330 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	17.8	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2680 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4540 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	17.2	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015936.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009514.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	4.4	5.0	ug/l	J
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	5.2	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		20-125%
4165-62-2	Phenol-d5	33%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	76%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008374.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	4.72	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010614.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	10300	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1270 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	1.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1830 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	5630	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	12.4	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015937.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.0	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009515.D	1	04/23/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		20-125%
4165-62-2	Phenol-d5	34%		10-125%
118-79-6	2,4,6-Tribromophenol	82%		35-140%
4165-60-0	Nitrobenzene-d5	83%		46-125%
321-60-8	2-Fluorobiphenyl	82%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008375.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	12.7	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	0.84	1.0	ug/l	J

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010615.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	2860	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	504 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	53.5	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1680 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	2550 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	6.6	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015946.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009516.D	1	04/23/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		20-125%
4165-62-2	Phenol-d5	34%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	86%		46-125%
321-60-8	2-Fluorobiphenyl	83%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008379.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	5.64	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010616.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	84%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	2610	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	761 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	2.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1520 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	2600 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015947.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	5.8	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009523.D	1	04/23/02	ME	04/16/02	OP4979	SW527
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		20-125%
4165-62-2	Phenol-d5	33%		10-125%
118-79-6	2,4,6-Tribromophenol	89%		35-140%
4165-60-0	Nitrobenzene-d5	86%		46-125%
321-60-8	2-Fluorobiphenyl	85%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008376.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	3.12	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010617.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	75%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	11200	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	5110	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	0.72 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2690 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	25000	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	52.4	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.28	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	41.4	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	24.2	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015948.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009524.D	1	04/23/02	ME	04/16/02	OP4979	SW527
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		20-125%
4165-62-2	Phenol-d5	34%		10-125%
118-79-6	2,4,6-Tribromophenol	84%		35-140%
4165-60-0	Nitrobenzene-d5	84%		46-125%
321-60-8	2-Fluorobiphenyl	79%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008378.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2.27	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010618.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	10200	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	957 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	3.6 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1540 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	2360 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.49	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.0	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

60108

ACCUTEST JOB #: F128863

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY: TALLAHASSEE STATE: FL ZIP: 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC-1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	/	TCL VOA's (8260B)	TCL SVOC's/PAH's (8270C)	TAL Metals	Dissolved Gases	TOC	Anions (NO2, NO3, SO4, Cl)	LAB USE ONLY
1	13GLM06501	4/10/02	08:43	MTA/JT	GW	11	7	1	1	3			3	2	1	3	1	1	
2	13GLM06I01	4/10/02	09:37	↓	GW	11	7	1	1	3			3	2	1	3	1	1	
3	13GLM06I01D	4/10/02	09:37	↓	GW	11	7	1	1	3			3	2	1	3	1	1	
4	13GLM01550 1	4/10/02	11:55	MTA/JT	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5	13GLM015I01	4/10/02	12:37	↓	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6	13GLM016501	4/10/02	15:05	↓	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	~~13GLM016I01~~	~~4/10/02~~																	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	4/11/02 1200	1.	2.	4/11/02 980	2. Miranda Dangat
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4. 113
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE 2.0 C
5.		5.			

FEDEX # 8511 3252861U

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12863
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PANAMA CITY RFI
LOCATION: AOC 1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOCs (8260B)	TCL SVOCs/PAHs (8270C)	Metals (Al, Na, Mg, Ca, K)	Dissolved Gases	NO2/NO3/SO4/Cl	TOC
7	1) 13GLM04I01	4/9/02	11:20	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓
8	2) 13GLM04S01	4/9/02	10:57	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓
9	3) 13GLM012I01	4/9/02	13:25	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓
10	4) 13GLM014I01	4/9/02	16:55	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓
11	5) 13GLM05I01		1600	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1
12	6) 13GLM05S01		1645	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1
13	7) 13GLM011I01		1030	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1
14	8) 13GLM011S01		1120	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1

MTA 4/11/02

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

DATA TURNAROUND INFORMATION

☒ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☒ OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	4/11/02 1700	1.	2.	4/11/02 930	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 2/3
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 2.0 C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12863
ACCUTEST QUOTE #: CONT'D

CLIENT INFORMATION

NAME: Tetra Tech NUS Inc
ADDRESS: 1401 Oven Park Dr #201
CITY, STATE, ZIP: Tallahassee FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 3824
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

	ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC/PAH	TOC	Metals	Cl, SO4, NO2, NO3	Dissolved Gases	LAB USE ONLY
15	9)	13GLM13S01	4/10/02	1200	JB	GW	11	X		X	X	X	3	2	1	1	1	3	
16	10)	13GLM13I01		1230				X		X		X	3	2	1	1	1	3	
17	11)	13GLM07I01		0930				X		X		X	3	2	1	1	1	3	
18	12)	13GLM07S01		0845				X		X		X	3	2	1	1	1	3	
19	13)	13GLM18S01		1515				X		X		X	3	2	1	1	1	3	

mb 4/11/02

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME: 1700 4/10/02	RECEIVED BY: 1.	RELINQUISHED BY: 2.	DATE TIME: 4/11/02 930	RECEIVED BY: 2. Miranda Dupont
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 3/3
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

Southeast ACCUTEST

05/10/02

Technical Report for

Tetra-Tech, NUS

CSS Panama City-N2834(CTO-0184)

WORK RELEASE#PC184-2

Accutest Job Number: F12878

Report to:

Total number of pages in report: 225

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Tetra-Tech, NUS

Job No: F12878

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC184-2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12878-1	04/11/02	12:15	JB	04/12/02	AQ	Ground Water	13GLM03S01
F12878-2	04/11/02	14:50	JB	04/12/02	AQ	Ground Water	13GLM010S01
F12878-3	04/11/02	15:20	JB	04/12/02	AQ	Ground Water	13GLM010I01
F12878-4	04/11/02	12:10	JB	04/12/02	AQ	Ground Water	13RL041102
F12878-5	04/11/02	10:30	JB	04/12/02	AQ	Ground Water	13GLM09I01
F12878-6	04/11/02	09:45	JB	04/12/02	AQ	Ground Water	13GLM09S01
F12878-7	04/11/02	12:15	JB	04/12/02	AQ	Ground Water	13GLM01S01D
F12878-8	04/11/02	08:55	JB	04/12/02	AQ	Ground Water	13GLM16I01
F12878-9	04/11/02	08:55	JB	04/12/02	AQ	Ground Water	13GLM16I01D
F12878-10	04/11/02	09:50	JB	04/12/02	AQ	Ground Water	13GLM16D01
F12878-11	04/11/02	11:35	JB	04/12/02	AQ	Ground Water	13GLM17S01
F12878-12	04/11/02	14:55	JB	04/12/02	AQ	Ground Water	13GLM17I01
F12878-13	04/11/02	12:40	JB	04/12/02	AQ	Ground Water	13GLM17D01

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009270.D	5	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	61.0	25	ug/l	
71-43-2	Benzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
108-90-7	Chlorobenzene	4.8	5.0	ug/l	J
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	25	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	83.4	5.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	4.3	25	ug/l	J
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethylene	4.5	5.0	ug/l	J
108-88-3	Toluene	289	5.0	ug/l	
79-01-6	Trichloroethylene	13.6	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	211	15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	109%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009528.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009584.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	20.1	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	4.1	5.0	ug/l	J
91-57-6	2-Methylnaphthalene	2.8	5.0	ug/l	J
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	11.4	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%	34%	20-125%
4165-62-2	Phenol-d5	28%	24%	10-125%
118-79-6	2,4,6-Tribromophenol	86%	90%	35-140%
4165-60-0	Nitrobenzene-d5	74%	74%	46-125%
321-60-8	2-Fluorobiphenyl	74%	80%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	73%	83%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008399.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	623	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.8 B	10	2.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Calcium	7640	1000	3.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Magnesium	480 B	5000	9.9	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Manganese	5.4 B	15	0.16	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Potassium	1110 B	5000	14	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Sodium	2100 B	5000	150	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	46.8	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009269.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	23.9	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	45.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.5	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	2.5	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	7.7	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	0.67	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone	1.4	5.0	ug/l	J
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.2	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	40.2	1.0	ug/l	
79-01-6	Trichloroethylene	3.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	50.3	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	109%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009529.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009585.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	2.8	5.0	ug/l	J
	3&4-Methylphenol	24.9	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	14.8	5.0	ug/l	
91-57-6	2-Methylnaphthalene	18.4	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	21.6	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	53%	20-125%
4165-62-2	Phenol-d5	32%	38%	10-125%
118-79-6	2,4,6-Tribromophenol	94%	101%	35-140%
4165-60-0	Nitrobenzene-d5	86%	92%	46-125%
321-60-8	2-Fluorobiphenyl	84%	93%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%	91%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008401.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2	XY008411.D	5	04/18/02	RA	n/a	n/a	GXY117

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2300 [a]	2.5	ug/l	
74-84-0	Ethane	11.9	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.7 B	10	2.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Calcium	27700	1000	3.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Magnesium	1060 B	5000	9.9	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Manganese	15.6	15	0.16	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Potassium	1750 B	5000	14	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Sodium	2470 B	5000	150	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	57.2	5.0	mg/l	5	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009244.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	1.6	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	7.7	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	0.66	1.0	ug/l	J
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	0.86	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	3.0	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009530.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009586.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
98-86-2	Acetophenone	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
1912-24-9	Atrazine	ND	5.5	ug/l	
100-52-7	Benzaldehyde	ND	28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
105-60-2	Caprolactam	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%	41%	20-125%
4165-62-2	Phenol-d5	38%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	92%	75%	35-140%
4165-60-0	Nitrobenzene-d5	86%	77%	46-125%
321-60-8	2-Fluorobiphenyl	80%	77%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%	82%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008402.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	63.9	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	10700	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	853 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	11.0 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2460 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4260 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	1.6	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	21.0	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.6	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009245.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	16.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	9.1	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	0.79	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009531.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009587.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%	47%	20-125%
4165-62-2	Phenol-d5	32%	33%	10-125%
118-79-6	2,4,6-Tribromophenol	77%	78%	35-140%
4165-60-0	Nitrobenzene-d5	70%	71%	46-125%
321-60-8	2-Fluorobiphenyl	68%	69%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%	81%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.8 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	16.3 B	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	12.0 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	0.16 U	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	665 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	866 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009248.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009532.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009588.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	55%	20-125%
4165-62-2	Phenol-d5	35%	38%	10-125%
118-79-6	2,4,6-Tribromophenol	85%	88%	35-140%
4165-60-0	Nitrobenzene-d5	82%	86%	46-125%
321-60-8	2-Fluorobiphenyl	78%	85%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%	82%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008403.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	12.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	3940	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	3620 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	2.6 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2750 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	3150 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	27.7	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.4	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009261.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.2	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	7.1	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	0.91	1.0	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	6.1	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	3.2	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	1.8	3.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009533.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009589.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%	46%	20-125%
4165-62-2	Phenol-d5	31%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	91%	90%	35-140%
4165-60-0	Nitrobenzene-d5	77%	79%	46-125%
321-60-8	2-Fluorobiphenyl	75%	76%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%	85%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008410.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	265	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.8 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	16000	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	729 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	8.8 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1710 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	3780 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.27	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	22.9	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	14.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009262.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	26.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	42.1	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.4	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	2.4	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	7.6	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	39.5	1.0	ug/l	
79-01-6	Trichloroethylene	2.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	50.3	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009534.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009590.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	22.3	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	15.3	5.0	ug/l	
91-57-6	2-Methylnaphthalene	19.1	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	22.3	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%	53%	20-125%
4165-62-2	Phenol-d5	27%	35%	10-125%
118-79-6	2,4,6-Tribromophenol	92%	98%	35-140%
4165-60-0	Nitrobenzene-d5	86%	92%	46-125%
321-60-8	2-Fluorobiphenyl	84%	93%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	77%	90%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008405.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2	XY008412.D	5	04/18/02	RA	n/a	n/a	GXY117

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2000 [a]	2.5	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	26600	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1030 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	14.6 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1690 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	2520 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	68.0	5.0	mg/l	5	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009263.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	2.5	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	108%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009535.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009591.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	56%	20-125%
4165-62-2	Phenol-d5	34%	38%	10-125%
118-79-6	2,4,6-Tribromophenol	85%	90%	35-140%
4165-60-0	Nitrobenzene-d5	84%	91%	46-125%
321-60-8	2-Fluorobiphenyl	80%	90%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%	89%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008409.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	73.9	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.4 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	25000	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1650 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	7.9 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1650 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	5660	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.12	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	10.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009264.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009536.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009592.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%	54%	20-125%
4165-62-2	Phenol-d5	38%	36%	10-125%
118-79-6	2,4,6-Tribromophenol	86%	92%	35-140%
4165-60-0	Nitrobenzene-d5	86%	86%	46-125%
321-60-8	2-Fluorobiphenyl	86%	84%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%	91%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008451.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	82.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	23200	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1510 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	6.9 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1540 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4550 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	11.4	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009249.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009537.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009593.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	42%	20-125%
4165-62-2	Phenol-d5	33%	28%	10-125%
118-79-6	2,4,6-Tribromophenol	82%	79%	35-140%
4165-60-0	Nitrobenzene-d5	82%	67%	46-125%
321-60-8	2-Fluorobiphenyl	77%	69%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%	78%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008452.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	165	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	31800	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1350 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	11.9 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1020 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4980 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	9.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009250.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	1.3	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	4.3	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	15.2	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	5.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.0	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009538.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009594.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%	49%	20-125%
4165-62-2	Phenol-d5	37%	34%	10-125%
118-79-6	2,4,6-Tribromophenol	90%	93%	35-140%
4165-60-0	Nitrobenzene-d5	86%	77%	46-125%
321-60-8	2-Fluorobiphenyl	82%	78%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%	86%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008453.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	622	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	8.9 B	10	2.8	ug/l	1	04/18/02	04/23/02	DM	SW846 6010B	SW846 3010A
Calcium	13400	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1050 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	13.7 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2180 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	3520 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	12.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009265.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	0.60	1.0	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	15.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	4.5	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.68	1.0	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.68	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009542.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009595.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%	50%	20-125%
4165-62-2	Phenol-d5	31%	34%	10-125%
118-79-6	2,4,6-Tribromophenol	82%	93%	35-140%
4165-60-0	Nitrobenzene-d5	80%	85%	46-125%
321-60-8	2-Fluorobiphenyl	75%	85%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%	89%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008454.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	163	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.6 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	995 B	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1330 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	25.3	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	3020 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4050 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	9.6	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009266.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	16.3	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	3.3	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	106%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009543.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009596.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	44%	20-125%
4165-62-2	Phenol-d5	32%	29%	10-125%
118-79-6	2,4,6-Tribromophenol	89%	95%	35-140%
4165-60-0	Nitrobenzene-d5	86%	74%	46-125%
321-60-8	2-Fluorobiphenyl	85%	75%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%	92%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008455.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	222	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.6 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	660 B	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1260 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	10.5 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2850 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4290 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.4	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

GC/MS Volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-BS	B0009236.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	67-125
71-43-2	Benzene	25	22.5	90	75-125
75-27-4	Bromodichloromethane	25	21.4	86	75-125
75-25-2	Bromoform	25	19.0	76	72-125
108-90-7	Chlorobenzene	25	21.7	87	75-125
75-00-3	Chloroethane	25	24.8	99	58-136
67-66-3	Chloroform	25	21.8	87	75-125
75-15-0	Carbon disulfide	125	112	90	48-142
56-23-5	Carbon tetrachloride	25	21.6	86	75-136
75-34-3	1,1-Dichloroethane	25	22.4	90	75-125
75-35-4	1,1-Dichloroethylene	25	21.9	88	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	20.7	83	64-125
107-06-2	1,2-Dichloroethane	25	21.0	84	75-125
78-87-5	1,2-Dichloropropane	25	23.4	94	75-125
124-48-1	Dibromochloromethane	25	21.2	85	75-125
75-71-8	Dichlorodifluoromethane	25	25.9	104	48-171
156-59-2	cis-1,2-Dichloroethylene	25	22.2	89	75-129
10061-01-5	cis-1,3-Dichloropropene	25	20.3	81	75-125
541-73-1	m-Dichlorobenzene	25	22.5	90	75-125
95-50-1	o-Dichlorobenzene	25	21.8	87	75-125
106-46-7	p-Dichlorobenzene	25	22.0	88	75-125
156-60-5	trans-1,2-Dichloroethylene	25	21.1	84	73-125
540-59-0	1,2-Dichloroethene (total)	50	43.3	87	73-129
10061-02-6	trans-1,3-Dichloropropene	25	19.9	80	75-125
100-41-4	Ethylbenzene	25	21.7	87	68-135
76-13-1	Freon 113	25	23.2	93	75-125
591-78-6	2-Hexanone	125	111	89	68-125
98-82-8	Isopropylbenzene	25	23.4	94	75-125
108-10-1	4-Methyl-2-pentanone	125	115	92	75-125
74-83-9	Methyl bromide	25	23.2	93	59-146
74-87-3	Methyl chloride	25	25.6	102	50-142
75-09-2	Methylene chloride	25	23.0	92	69-125
78-93-3	Methyl ethyl ketone	125	110	88	70-125
1634-04-4	Methyl Tert Butyl Ether	25	23.4	94	75-125
100-42-5	Styrene	25	23.3	93	75-125
71-55-6	1,1,1-Trichloroethane	25	22.8	91	75-132

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-BS	B0009236.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	21.4	86	75-125
79-00-5	1,1,2-Trichloroethane	25	21.8	87	75-125
127-18-4	Tetrachloroethylene	25	22.2	89	75-126
108-88-3	Toluene	25	22.1	88	75-125
79-01-6	Trichloroethylene	25	21.5	86	75-125
75-69-4	Trichlorofluoromethane	25	24.7	99	55-162
75-01-4	Vinyl chloride	25	25.4	102	60-147
1330-20-7	Xylene (total)	75	67.9	91	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-BS	B0009259.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	120	96	67-125
71-43-2	Benzene	25	22.1	88	75-125
75-27-4	Bromodichloromethane	25	21.8	87	75-125
75-25-2	Bromoform	25	20.9	84	72-125
108-90-7	Chlorobenzene	25	22.2	89	75-125
75-00-3	Chloroethane	25	24.5	98	58-136
67-66-3	Chloroform	25	21.6	86	75-125
75-15-0	Carbon disulfide	125	112	90	48-142
56-23-5	Carbon tetrachloride	25	21.9	88	75-136
75-34-3	1,1-Dichloroethane	25	22.2	89	75-125
75-35-4	1,1-Dichloroethylene	25	21.6	86	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	21.3	85	64-125
107-06-2	1,2-Dichloroethane	25	20.6	82	75-125
78-87-5	1,2-Dichloropropane	25	23.7	95	75-125
124-48-1	Dibromochloromethane	25	21.8	87	75-125
75-71-8	Dichlorodifluoromethane	25	25.6	102	48-171
156-59-2	cis-1,2-Dichloroethylene	25	22.2	89	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.0	84	75-125
541-73-1	m-Dichlorobenzene	25	22.0	88	75-125
95-50-1	o-Dichlorobenzene	25	21.9	88	75-125
106-46-7	p-Dichlorobenzene	25	21.5	86	75-125
156-60-5	trans-1,2-Dichloroethylene	25	21.0	84	73-125
540-59-0	1,2-Dichloroethene (total)	50	43.2	86	73-129
10061-02-6	trans-1,3-Dichloropropene	25	20.3	81	75-125
100-41-4	Ethylbenzene	25	21.7	87	68-135
76-13-1	Freon 113	25	24.3	97	75-125
591-78-6	2-Hexanone	125	122	98	68-125
98-82-8	Isopropylbenzene	25	22.8	91	75-125
108-10-1	4-Methyl-2-pentanone	125	125	100	75-125
74-83-9	Methyl bromide	25	22.3	89	59-146
74-87-3	Methyl chloride	25	25.0	100	50-142
75-09-2	Methylene chloride	25	21.0	84	69-125
78-93-3	Methyl ethyl ketone	125	119	95	70-125
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	75-125
100-42-5	Styrene	25	23.1	92	75-125
71-55-6	1,1,1-Trichloroethane	25	22.1	88	75-132

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-BS	B0009259.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	21.9	88	75-125
79-00-5	1,1,2-Trichloroethane	25	21.8	87	75-125
127-18-4	Tetrachloroethylene	25	22.1	88	75-126
108-88-3	Toluene	25	21.7	87	75-125
79-01-6	Trichloroethylene	25	21.6	86	75-125
75-69-4	Trichlorofluoromethane	25	25.7	103	55-162
75-01-4	Vinyl chloride	25	24.7	99	60-147
1330-20-7	Xylene (total)	75	67.1	89	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	80-120%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-MB	B0009237.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-MB	B0009237.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	108%	80-120%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-MB	B0009260.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-MB	B0009260.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	107%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12816-5MS	B0009239.D	100	04/16/02	JG	n/a	n/a	VB399
F12816-5MSD	B0009240.D	100	04/16/02	JG	n/a	n/a	VB399
F12816-5	B0009238.D	100	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	F12816-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		12500	10600	85	10800	86	2	61-125/15
71-43-2	Benzene	3030		2500	5280	90	5080	82	4	75-125/15
75-27-4	Bromodichloromethane	ND		2500	2120	85	2060	82	3	75-125/15
75-25-2	Bromoform	ND		2500	1790	72	1700	68	5	66-125/15
108-90-7	Chlorobenzene	ND		2500	2140	86	2130	85	0	75-125/15
75-00-3	Chloroethane	ND		2500	2170	87	2200	88	1	53-125/15
67-66-3	Chloroform	ND		2500	2140	86	2070	83	3	75-125/15
75-15-0	Carbon disulfide	ND		12500	11100	89	10400	83	7	51-138/15
56-23-5	Carbon tetrachloride	ND		2500	2010	80	1920	77	5	74-131/15
75-34-3	1,1-Dichloroethane	ND		2500	2200	88	2170	87	1	75-125/15
75-35-4	1,1-Dichloroethylene	ND		2500	2210	88	2130	85	4	66-140/15
96-12-8	1,2-Dibromo-3-chloropropane	ND		2500	2020	81	1980	79	2	57-125/15
107-06-2	1,2-Dichloroethane	ND		2500	2100	84	2040	82	3	75-125/15
78-87-5	1,2-Dichloropropane	ND		2500	2300	92	2240	90	3	75-125/15
124-48-1	Dibromochloromethane	ND		2500	1970	79	1980	79	1	75-125/15
75-71-8	Dichlorodifluoromethane	ND		2500	2170	87	2400	96	10	45-182/15
156-59-2	cis-1,2-Dichloroethylene	ND		2500	2130	85	2090	84	2	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		2500	1760	70*	1670	67*	5	71-125/15
541-73-1	m-Dichlorobenzene	ND		2500	2280	91	2120	85	7	75-125/15
95-50-1	o-Dichlorobenzene	ND		2500	2180	87	2040	82	7	75-125/15
106-46-7	p-Dichlorobenzene	ND		2500	2190	88	2100	84	4	75-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		2500	2110	84	2010	80	5	73-125/15
540-59-0	1,2-Dichloroethene (total)	ND		5000	4250	85	4100	82	4	73-136/15
10061-02-6	trans-1,3-Dichloropropene	ND		2500	1580	63	1480	59*	7	62-125/15
100-41-4	Ethylbenzene	93.7	J	2500	2290	88	2210	85	4	75-125/15
76-13-1	Freon 113	ND		2500	2530	101	2240	90	12	69-131/15
591-78-6	2-Hexanone	ND		12500	11100	89	11300	90	2	71-125/15
98-82-8	Isopropylbenzene	ND		2500	2340	94	2290	92	2	74-125/15
108-10-1	4-Methyl-2-pentanone	ND		12500	11300	90	11100	89	2	75-125/15
74-83-9	Methyl bromide	ND		2500	2030	81	2030	81	0	67-146/15
74-87-3	Methyl chloride	ND		2500	2160	86	2290	92	6	47-160/15
75-09-2	Methylene chloride	ND		2500	2280	91	2170	87	5	69-125/15
78-93-3	Methyl ethyl ketone	ND		12500	11000	88	11000	88	0	70-125/15
1634-04-4	Methyl Tert Butyl Ether	ND		2500	2280	91	2290	92	0	75-125/15
100-42-5	Styrene	ND		2500	2310	92	2240	90	3	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		2500	2210	88	2120	85	4	75-131/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12816-5MS	B0009239.D	100	04/16/02	JG	n/a	n/a	VB399
F12816-5MSD	B0009240.D	100	04/16/02	JG	n/a	n/a	VB399
F12816-5	B0009238.D	100	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	F12816-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		2500	2090	84	2050	82	2	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		2500	2180	87	2100	84	4	75-125/15
127-18-4	Tetrachloroethylene	ND		2500	2240	90	2180	87	3	75-125/15
108-88-3	Toluene	2170		2500	4280	84	4250	83	1	75-125/15
79-01-6	Trichloroethylene	ND		2500	2150	86	2100	84	2	75-125/15
75-69-4	Trichlorofluoromethane	ND		2500	2180	87	2080	83	5	60-139/30
75-01-4	Vinyl chloride	ND		2500	2250	90	2400	96	6	52-169/15
1330-20-7	Xylene (total)	361	J	7500	7220	91	7110	90	2	75-125/15

CAS No.	Surrogate Recoveries	MS	MSD	F12816-5	Limits
1868-53-7	Dibromofluoromethane	99%	98%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	101%	100%	80-120%
2037-26-5	Toluene-D8	98%	100%	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	99%	107%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12878-7MS	B0009267.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7MSD	B0009268.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7	B0009262.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	F12878-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	26.1		125	156	104	150	99	4	61-125/15
71-43-2	Benzene	ND		25	22.9	92	22.3	89	3	75-125/15
75-27-4	Bromodichloromethane	ND		25	21.2	85	20.9	84	1	75-125/15
75-25-2	Bromoform	ND		25	17.8	71	16.6	66	7	66-125/15
108-90-7	Chlorobenzene	ND		25	22.0	88	21.3	85	3	75-125/15
75-00-3	Chloroethane	ND		25	21.7	87	21.0	84	3	53-125/15
67-66-3	Chloroform	ND		25	21.8	87	21.7	87	0	75-125/15
75-15-0	Carbon disulfide	ND		125	112	90	105	84	6	51-138/15
56-23-5	Carbon tetrachloride	ND		25	20.3	81	21.0	84	3	74-131/15
75-34-3	1,1-Dichloroethane	42.1		25	90.6	194*	89.6	190*	1	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	24.2	97	22.9	92	6	66-140/15
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	24.9	100	23.6	94	5	57-125/15
107-06-2	1,2-Dichloroethane	ND		25	20.4	82	21.2	85	4	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	23.7	95	22.7	91	4	75-125/15
124-48-1	Dibromochloromethane	ND		25	20.4	82	19.8	79	3	75-125/15
75-71-8	Dichlorodifluoromethane	ND		25	22.3	89	20.9	84	6	45-182/15
156-59-2	cis-1,2-Dichloroethylene	2.4		25	25.0	90	25.0	90	0	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	17.0	68*	17.0	68*	0	71-125/15
541-73-1	m-Dichlorobenzene	ND		25	22.1	88	22.0	88	0	75-125/15
95-50-1	o-Dichlorobenzene	ND		25	22.1	88	21.3	85	4	75-125/15
106-46-7	p-Dichlorobenzene	ND		25	21.5	86	21.3	85	1	75-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	20.6	82	21.0	84	2	73-125/15
540-59-0	1,2-Dichloroethene (total)	2.4		50	45.6	86	45.9	87	1	73-136/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	15.0	60*	15.2	61*	1	62-125/15
100-41-4	Ethylbenzene	7.6		25	33.7	104	33.0	102	2	75-125/15
76-13-1	Freon 113	ND		25	23.1	92	22.2	89	4	69-131/15
591-78-6	2-Hexanone	ND		125	139	111	129	103	7	71-125/15
98-82-8	Isopropylbenzene	ND		25	23.2	93	24.9	100	7	74-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	132	106	124	99	6	75-125/15
74-83-9	Methyl bromide	ND		25	19.7	79	18.4	74	7	67-146/15
74-87-3	Methyl chloride	ND		25	21.3	85	19.4	78	9	47-160/15
75-09-2	Methylene chloride	ND		25	21.9	88	20.2	81	8	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	120	96	113	90	6	70-125/15
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.5	94	24.0	96	2	75-125/15
100-42-5	Styrene	ND		25	24.2	97	22.7	91	6	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	23.1	92	24.0	96	4	75-131/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12878-7MS	B0009267.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7MSD	B0009268.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7	B0009262.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	F12878-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.9	88	22.9	92	4	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	21.8	87	21.8	87	0	75-125/15
127-18-4	Tetrachloroethylene	ND		25	22.8	91	23.2	93	2	75-125/15
108-88-3	Toluene	39.5		25	91.2	207*	91.6	208*	0	75-125/15
79-01-6	Trichloroethylene	2.7		25	25.4	91	25.6	92	1	75-125/15
75-69-4	Trichlorofluoromethane	ND		25	22.4	90	22.9	92	2	60-139/30
75-01-4	Vinyl chloride	ND		25	22.1	88	20.8	83	6	52-169/15
1330-20-7	Xylene (total)	50.3		75	148	130*	146	128*	1	75-125/15

CAS No.	Surrogate Recoveries	MS	MSD	F12878-7	Limits
1868-53-7	Dibromofluoromethane	100%	103%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	106%	101%	80-120%
2037-26-5	Toluene-D8	96%	100%	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	105%	98%	80-120%

Instrument Performance Check (BFB)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VB399-BFB
Lab File ID: B0009234.D
Instrument ID: GCMSB
Injection Date: 04/16/02
Injection Time: 09:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11677	25.2		Pass
75	30.0 - 60.0% of mass 95	20861	45.1		Pass
95	Base peak, 100% relative abundance	46256	100.0		Pass
96	5.0 - 9.0% of mass 95	3133	6.8		Pass
173	Less than 2.0% of mass 174	297	0.64	(0.75) [a]	Pass
174	50.0 - 100.0% of mass 95	39789	86.0		Pass
175	5.0 - 9.0% of mass 174	2932	6.3	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	40040	86.6	(100.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2452	5.3	(6.1) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB399-CC398	B0009235.D	04/16/02	09:32	00:27	Continuing cal 40PPB
VB399-BS	B0009236.D	04/16/02	10:00	00:55	Blank Spike
VB399-MB	B0009237.D	04/16/02	10:28	01:23	Method Blank
F12816-5	B0009238.D	04/16/02	10:56	01:51	(used for QC only; not part of job F12878)
F12816-5MS	B0009239.D	04/16/02	11:24	02:19	Matrix Spike
F12816-5MSD	B0009240.D	04/16/02	11:52	02:47	Matrix Spike Duplicate
F12878-3	B0009244.D	04/16/02	13:52	04:47	13GLM010I01
F12878-4	B0009245.D	04/16/02	14:21	05:16	13RL041102
ZZZZZZ	B0009246.D	04/16/02	14:50	05:45	(unrelated sample)
ZZZZZZ	B0009247.D	04/16/02	15:18	06:13	(unrelated sample)
F12878-5	B0009248.D	04/16/02	15:47	06:42	13GLM09I01
F12878-10	B0009249.D	04/16/02	16:16	07:11	13GLM16D01
F12878-11	B0009250.D	04/16/02	16:44	07:39	13GLM17S01

Instrument Performance Check (BFB)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VB400-BFB
Lab File ID: B0009257.D
Instrument ID: GCMSB
Injection Date: 04/17/02
Injection Time: 09:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6982	26.6		Pass
75	30.0 - 60.0% of mass 95	11580	44.1		Pass
95	Base peak, 100% relative abundance	26269	100.0		Pass
96	5.0 - 9.0% of mass 95	1712	6.5		Pass
173	Less than 2.0% of mass 174	168	0.64	(0.64) [a]	Pass
174	50.0 - 100.0% of mass 95	26226	99.8		Pass
175	5.0 - 9.0% of mass 174	2121	8.1	(8.1) [a]	Pass
176	95.0 - 101.0% of mass 174	26429	100.6	(100.8) [a]	Pass
177	5.0 - 9.0% of mass 176	1927	7.3	(7.3) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB400-CC398	B0009258.D	04/17/02	09:56	00:31	Continuing cal 40PPB
VB400-BS	B0009259.D	04/17/02	10:25	01:00	Blank Spike
VB400-MB	B0009260.D	04/17/02	10:53	01:28	Method Blank
F12878-6	B0009261.D	04/17/02	11:21	01:56	13GLM09S01
F12878-7	B0009262.D	04/17/02	11:50	02:25	13GLM01S01D
F12878-8	B0009263.D	04/17/02	12:18	02:53	13GLM16I01
F12878-9	B0009264.D	04/17/02	12:46	03:21	13GLM16I01D
F12878-12	B0009265.D	04/17/02	13:14	03:49	13GLM17I01
F12878-13	B0009266.D	04/17/02	13:42	04:17	13GLM17D01
F12878-7MS	B0009267.D	04/17/02	14:10	04:45	Matrix Spike
F12878-7MSD	B0009268.D	04/17/02	14:38	05:13	Matrix Spike Duplicate
F12878-2	B0009269.D	04/17/02	15:06	05:41	13GLM010S01
F12878-1	B0009270.D	04/17/02	15:37	06:12	13GLM03S01
ZZZZZZ	B0009272.D	04/17/02	16:35	07:10	(unrelated sample)
ZZZZZZ	B0009273.D	04/17/02	17:03	07:38	(unrelated sample)
ZZZZZZ	B0009274.D	04/17/02	17:34	08:09	(unrelated sample)
ZZZZZZ	B0009275.D	04/17/02	18:05	08:40	(unrelated sample)
ZZZZZZ	B0009276.D	04/17/02	18:35	09:10	(unrelated sample)
ZZZZZZ	B0009277.D	04/17/02	19:06	09:41	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VB398-BFB
Lab File ID: B0009210.D
Instrument ID: GCMSB
Injection Date: 04/15/02
Injection Time: 09:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11101	24.2		Pass
75	30.0 - 60.0% of mass 95	20132	43.8		Pass
95	Base peak, 100% relative abundance	45960	100.0		Pass
96	5.0 - 9.0% of mass 95	3094	6.7		Pass
173	Less than 2.0% of mass 174	346	0.75	(0.81) [a]	Pass
174	50.0 - 100.0% of mass 95	42949	93.4		Pass
175	5.0 - 9.0% of mass 174	3022	6.6	(7.0) [a]	Pass
176	95.0 - 101.0% of mass 174	40850	88.9	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2776	6.0	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB398-IC398	B0009212.D	04/15/02	12:04	02:14	Initial cal 1PPB
VB398-IC398	B0009213.D	04/15/02	12:34	02:44	Initial cal 5PPB
VB398-IC398	B0009214.D	04/15/02	13:02	03:12	Initial cal 20PPB
VB398-ICC398	B0009215.D	04/15/02	13:31	03:41	Initial cal 40PPB
VB398-IC398	B0009217.D	04/15/02	14:27	04:37	Initial cal 100PPB
VB398-IC398	B0009219.D	04/15/02	15:23	05:33	Initial cal 70PPB
VB398-BS	B0009220.D	04/15/02	15:52	06:02	Blank Spike
VB398-MB	B0009221.D	04/15/02	16:20	06:30	Method Blank
ZZZZZZ	B0009222.D	04/15/02	16:48	06:58	(unrelated sample)
ZZZZZZ	B0009223.D	04/15/02	17:16	07:26	(unrelated sample)
ZZZZZZ	B0009224.D	04/15/02	17:45	07:55	(unrelated sample)
ZZZZZZ	B0009225.D	04/15/02	18:13	08:23	(unrelated sample)
ZZZZZZ	B0009226.D	04/15/02	18:41	08:51	(unrelated sample)
F12816-20	B0009227.D	04/15/02	19:09	09:19	(used for QC only; not part of job F12878)
F12816-20MS	B0009228.D	04/15/02	19:37	09:47	Matrix Spike
F12816-20MSD	B0009229.D	04/15/02	20:05	10:15	Matrix Spike Duplicate
ZZZZZZ	B0009230.D	04/15/02	20:34	10:44	(unrelated sample)
ZZZZZZ	B0009231.D	04/15/02	21:04	11:14	(unrelated sample)
ZZZZZZ	B0009232.D	04/15/02	21:35	11:45	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std:	VB399-CC398	**Injection Date:**	04/16/02
Lab File ID:	B0009235.D	**Injection Time:**	09:32
Instrument ID:	GCMSB	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1248904	10.07	847542	13.33	480690	15.88
Upper Limit [a]	2497808	10.57	1695084	13.83	961380	16.38
Lower Limit [b]	624452	9.57	423771	12.83	240345	15.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VB399-BS	1253439	10.07	847135	13.33	468020	15.88
VB399-MB	1254620	10.07	818218	13.33	379243	15.88
F12816-5	1244631	10.07	817395	13.33	379718	15.88
F12816-5MS	1215965	10.07	832022	13.33	464392	15.88
F12816-5MSD	1294343	10.07	857929	13.33	483413	15.88
F12878-3	1153669	10.07	758567	13.33	364425	15.88
F12878-4	1138928	10.07	753555	13.33	356349	15.88
ZZZZZZ	1149348	10.07	751360	13.33	351917	15.88
ZZZZZZ	1124266	10.07	734906	13.33	348063	15.88
F12878-5	1110152	10.07	725455	13.33	341976	15.88
F12878-10	1077292	10.07	707465	13.33	332916	15.88
F12878-11	1070126	10.07	709178	13.33	337925	15.88

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std:	VB400-CC398	**Injection Date:**	04/17/02
Lab File ID:	B0009258.D	**Injection Time:**	09:56
Instrument ID:	GCMSB	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1150934	10.07	802199	13.33	472203	15.88
Upper Limit [a]	2301868	10.57	1604398	13.83	944406	16.38
Lower Limit [b]	575467	9.57	401100	12.83	236102	15.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VB400-BS	1246903	10.07	856569	13.33	487482	15.88
VB400-MB	1272974	10.07	822559	13.33	382522	15.88
F12878-6	1211453	10.07	805315	13.33	393925	15.88
F12878-7	1191995	10.07	804164	13.33	435814	15.88
F12878-8	1487946	10.07	973776	13.33	459982	15.88
F12878-9	1288293	10.07	847394	13.33	402376	15.88
F12878-12	1247091	10.07	809243	13.33	392307	15.88
F12878-13	1225869	10.07	800119	13.33	378431	15.88
F12878-7MS	1226326	10.07	852832	13.33	509091	15.88
F12878-7MSD	2034137	10.07	1350469	13.33	701074	15.88
F12878-2	2198327	10.07	1539789	13.33	827807	15.88
F12878-1	2149266	10.07	1496565	13.33	818060	15.88
ZZZZZZ	1908553	10.07	1217328	13.33	570836	15.88
ZZZZZZ	1578946	10.07	1004522	13.33	467362	15.88
ZZZZZZ	1402064	10.07	905295	13.33	419207	15.88
ZZZZZZ	1314095	10.07	846408	13.33	398090	15.88
ZZZZZZ	1285836	10.07	820656	13.33	386378	15.88
ZZZZZZ	1251678	10.07	820165	13.33	383643	15.88

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F12878-1	B0009270.D	115.0	116.0	96.0	109.0
F12878-2	B0009269.D	111.0	111.0	96.0	109.0
F12878-3	B0009244.D	101.0	100.0	102.0	107.0
F12878-4	B0009245.D	100.0	100.0	100.0	105.0
F12878-5	B0009248.D	101.0	101.0	101.0	105.0
F12878-6	B0009261.D	99.0	99.0	99.0	103.0
F12878-7	B0009262.D	100.0	101.0	99.0	98.0
F12878-8	B0009263.D	101.0	102.0	102.0	108.0
F12878-9	B0009264.D	98.0	100.0	100.0	107.0
F12878-10	B0009249.D	101.0	100.0	100.0	103.0
F12878-11	B0009250.D	102.0	100.0	100.0	105.0
F12878-12	B0009265.D	100.0	100.0	101.0	103.0
F12878-13	B0009266.D	98.0	100.0	100.0	106.0
F12816-5MS	B0009239.D	99.0	103.0	98.0	97.0
F12816-5MSD	B0009240.D	98.0	101.0	100.0	99.0
F12878-7MS	B0009267.D	100.0	103.0	96.0	94.0
F12878-7MSD	B0009268.D	103.0	106.0	100.0	105.0
VB399-BS	B0009236.D	100.0	98.0	99.0	98.0
VB399-MB	B0009237.D	99.0	99.0	101.0	108.0
VB400-BS	B0009259.D	101.0	102.0	98.0	94.0
VB400-MB	B0009260.D	100.0	100.0	101.0	107.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Initial Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VB398-ICC398
Lab FileID: B0009215.D

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 15:01:46 2002
Response via : Initial Calibration

Calibration Files
1 =B0009212.D 2 =B0009213.D 3 =B0009214.D
4 =B0009215.D 5 =B0009219.D 6 =B0009217.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------		
2)		Dichlorodifluoromet		0.228	0.221	0.250	0.259	0.245	0.241	6.55
3)	P	Chloromethane	0.521	0.471	0.456	0.481	0.464	0.479	0.479	4.78
4)	C	Vinyl Chloride	0.383	0.361	0.341	0.380	0.378	0.373	0.369	4.28
5)		Bromomethane	0.204	0.198	0.184	0.200	0.195	0.193	0.196	3.61
6)		Chloroethane		0.174	0.173	0.188	0.191	0.190	0.183	4.92
7)		Trichlorofluorometh		0.181	0.208	0.228	0.254	0.246	0.223	13.27
8)		Acrolein	0.007	0.008	0.010	0.012	0.017	0.015	0.012	31.71
9)	C	1,1-Dichloroethene	0.348	0.404	0.428	0.433	0.460	0.449	0.420	9.63
10)		Freon 113	0.156	0.187	0.207	0.211	0.206	0.196	0.194	10.56
11)		Acetone		0.082	0.075	0.074	0.083	0.077	0.078	5.24
12)		Iodomethane	0.232	0.280	0.281	0.312	0.317	0.311	0.289	11.20
13)		Methyl acetate	0.204	0.233	0.229	0.222	0.235	0.230	0.225	5.10
14)		Carbon Disulfide	1.029	1.006	0.970	0.942	0.963	0.921	0.972	4.13
15)		Methylene Chloride	0.506	0.455	0.500	0.489	0.495	0.482	0.488	3.75
16)		Tert Butyl Alcohol	0.020	0.019	0.020	0.022	0.024	0.024	0.021	10.41
17)		trans-1,2-Dichloroe	0.355	0.413	0.395	0.389	0.411	0.394	0.393	5.35
18)		Acrylonitrile	0.067	0.080	0.084	0.083	0.087	0.085	0.081	8.75
19)		Methyl Tert Butyl E	0.453	0.574	0.594	0.589	0.635	0.603	0.575	10.98
20)		Hexane	0.329	0.327	0.344	0.337	0.363	0.330	0.338	4.04
21)	P	1,1-Dichloroethane	0.436	0.498	0.483	0.484	0.495	0.474	0.478	4.68
22)		ETBE	0.623	0.813	0.840	0.842	0.904	0.881	0.817	12.30
23)		Vinyl acetate		0.438	0.462	0.476	0.504	0.485	0.473	5.24
24)		Di-isopropyl ether	0.976	1.164	1.178	1.162	1.216	1.182	1.147	7.47
25)		2,2-Dichloropropane	0.181	0.192	0.193	0.189	0.199	0.178	0.189	4.16
26)		cis-1,2-Dichloroeth	0.279	0.281	0.276	0.263	0.266	0.257	0.270	3.64
27)		2-Butanone	0.108	0.134	0.131	0.130	0.140	0.137	0.130	8.77
28)		Bromochloromethane	0.088	0.115	0.109	0.107	0.108	0.106	0.105	8.40
29)	C	Chloroform	0.447	0.416	0.392	0.386	0.406	0.396	0.407	5.50
30)		Tetrahydrofuran	0.089	0.080	0.086	0.086	0.091	0.091	0.087	4.75
31)		1,1,1-Trichloroetha	0.263	0.276	0.275	0.276	0.282	0.274	0.274	2.30
32)	S	Dibromofluoromethan	0.211	0.210	0.207	0.209	0.212	0.211	0.210	0.81
33)		Cyclohexane	0.412	0.467	0.488	0.496	0.523	0.504	0.482	8.10
34)		1,1-Dichloropropene	0.243	0.286	0.291	0.294	0.309	0.296	0.287	7.91
35)		Carbon Tetrachlorid	0.210	0.208	0.211	0.212	0.223	0.217	0.213	2.59
36)	S	1,2-Dichloroethane-	0.251	0.255	0.257	0.252	0.264	0.265	0.258	2.27
37)		TAME	0.568	0.657	0.681	0.677	0.716	0.708	0.668	7.99
38)		Benzene	1.010	1.100	1.049	1.038	1.052	1.019	1.045	3.06
39)		1,2-Dichloroethane	0.393	0.334	0.313	0.310	0.319	0.317	0.331	9.54
40)		Trichloroethene		0.251	0.236	0.232	0.242	0.233	0.239	3.37
41)		Methylcyclohexane	0.353	0.339	0.349	0.339	0.362	0.344	0.348	2.55
42)	C	1,2-Dichloropropane	0.258	0.307	0.296	0.296	0.309	0.304	0.295	6.35
43)		Dibromomethane	0.120	0.147	0.146	0.145	0.150	0.149	0.143	7.99
44)		1,4-Dioxane	0.003	0.002	0.002	0.002	0.003	0.003	0.002	17.24
45)		Bromodichloromethan	0.287	0.295	0.299	0.298	0.313	0.310	0.300	3.18
46)		2-Nitropropane	0.052	0.057	0.061	0.063	0.066	0.069	0.061	9.96

Initial Calibration Summary

Job Number: F12878 **Sample:** VB398-ICC398
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** B0009215.D
Project: CSS Panama City-N2834(CTO-0184)

47)		2-Chloroethyl vinyl		0.124	0.142	0.146	0.160	0.158	0.146	9.78
48)		4-Methyl-2-pentanon	0.220	0.287	0.309	0.302	0.313	0.310	0.290	12.33
49)		cis-1,3-Dichloropro	0.314	0.373	0.392	0.387	0.416	0.406	0.381	9.57
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	S	Toluene-d8	1.373	1.378	1.363	1.363	1.385	1.368	1.372	0.62
52)	C	Toluene	1.556	1.634	1.595	1.529	1.592	1.538	1.574	2.53
53)		trans-1,3-Dichlorop	0.367	0.451	0.480	0.491	0.540	0.519	0.475	12.86
54)		1,1,2-Trichloroetha	0.268	0.307	0.303	0.295	0.302	0.293	0.295	4.71
55)		Tetrachloroethene	0.341	0.335	0.334	0.324	0.339	0.318	0.332	2.74
56)		2-hexanone	0.213	0.269	0.300	0.301	0.320	0.315	0.286	14.01
57)		1,3-Dichloropropane	0.492	0.584	0.575	0.552	0.572	0.567	0.557	6.02
58)		Dibromochloromethan	0.259	0.290	0.284	0.294	0.308	0.304	0.290	5.97
59)		1,2-Dibromoethane	0.267	0.308	0.302	0.295	0.319	0.311	0.300	6.04
60)		1-Chlorohexane	0.385	0.445	0.488	0.486	0.510	0.488	0.467	9.71
61)	P	Chlorobenzene	0.937	0.988	0.936	0.914	0.937	0.904	0.936	3.09
62)		1,1,1,2-Tetrachloro	0.277	0.290	0.294	0.285	0.301	0.295	0.290	2.94
63)	C	Ethylbenzene	1.620	1.734	1.716	1.696	1.773	1.715	1.709	2.97
64)		m,p-Xylene	1.100	1.291	1.284	1.264	1.336	1.311	1.264	6.66
65)		o-Xylene	1.054	1.283	1.357	1.340	1.393	1.353	1.297	9.57
66)		Styrene	0.733	0.991	1.063	1.063	1.078	1.050	0.996	13.29
67)	P	Bromoform		0.203	0.214	0.226	0.240	0.239	0.224	7.11
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)		Isopropylbenzene	2.288	2.482	2.480	2.475	2.587	2.557	2.478	4.20
70)		Cyclohexanone	0.058	0.025	0.020	0.023	0.024	0.025	0.029	48.68
71)	S	4-Bromofluorobenzen	0.954	0.913	0.894	0.908	0.948	0.969	0.931	3.23
72)		Bromobenzene	0.781	0.846	0.773	0.756	0.770	0.771	0.783	4.09
73)	P	1,1,2,2-Tetrachloro	0.796	0.902	0.863	0.838	0.882	0.879	0.860	4.42
74)		trans-1,4-Dichloro-	0.092	0.071	0.097	0.129	0.159	0.180	0.121	34.84
75)		1,2,3-Trichloroprop	0.176	0.188	0.186	0.176	0.190	0.189	0.184	3.58
76)		n-Propylbenzene	3.796	3.820	3.708	3.695	3.858	3.862	3.790	1.92
77)		2-Chlorotoluene	2.251	2.502	2.402	2.352	2.487	2.495	2.415	4.14
78)		4-Chlorotoluene	2.089	2.201	2.168	2.149	2.258	2.256	2.187	2.99
79)		1,3,5-Trimethylbenz	1.949	2.103	2.115	2.113	2.213	2.195	2.114	4.42
80)		sec-Butylbenzene	2.654	2.654	2.718	2.675	2.743	2.691	2.689	1.34
81)		1,3-Dichlorobenzene	1.318	1.408	1.413	1.380	1.403	1.385	1.384	2.52
82)		4-Isopropyltoluene	1.816	1.900	2.072	2.059	2.089	2.038	1.996	5.58
83)		1,4-Dichlorobenzene	1.579	1.528	1.490	1.429	1.459	1.432	1.486	3.95
84)		tert-Butylbenzene	1.283	1.212	1.257	1.248	1.303	1.293	1.266	2.67
85)		n-Butylbenzene	1.942	2.016	2.297	2.350	2.412	2.371	2.232	8.99
86)		1,2-Dichlorobenzene	1.403	1.381	1.404	1.379	1.376	1.362	1.384	1.19
87)		1,2,4-Trimethylbenz	1.923	2.135	2.224	2.237	2.265	2.265	2.175	6.08
88)		1,2-Dibromo-3-Chlor		0.093	0.107	0.110	0.114	0.118	0.108	8.79
89)		1,2,4-Trichlorobenz	0.695	0.627	0.755	0.826	0.855	0.864	0.770	12.39
90)		Hexachlorobutadiene	0.383	0.354	0.345	0.342	0.350	0.341	0.353	4.49
91)		Naphthalene	2.230	1.241	1.570	1.762	1.844	1.867	1.752	18.83
92)		1,2,3-Trichlorobenz	0.667	0.551	0.644	0.732	0.750	0.757	0.683	11.61

Average % RSD = 7.5

(#) = Out of Range

8260APP1.M Tue Apr 16 15:21:54 2002 RPT1

Continuing Calibration Summary

Job Number: F12878 **Sample:** VB399-CC398
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** B0009235.D
Project: CSS Panama City-N2834(CTO-0184)

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041602\B0009235.D Vial: 1
Acq On : 16 Apr 2002 9:32 am Operator: JuanG
Sample : CC398-40PPB Inst : MSVOA4
Misc : ms1452,vb399,5.0,,,5.0,1,water Multiplr: 1.00
MS Integration Params: Tiny.p

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 15:01:46 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	99	0.00
2		Dichlorodifluoromethane	0.241	0.203	15.8	80	0.00
3	P	Chloromethane	0.479	0.407	15.0	84	0.01
4	C	Vinyl Chloride	0.369	0.320	13.3	83	0.01
5		Bromomethane	0.196	0.180	8.2	89	0.00
6		Chloroethane	0.183	0.172	6.0	91	0.00
7		Trichlorofluoromethane	0.223	0.227	-1.8	99	0.00
8		Acrolein	0.012	0.016	-33.3#	133	0.00
9	C	1,1-Dichloroethene	0.420	0.415	1.2	95	0.00
10		Freon 113	0.194	0.191	1.5	89	0.00
11		Acetone	0.078	0.067	14.1	90	0.00
12		Iodomethane	0.289	0.282	2.4	90	-0.01
13		Methyl acetate	0.225	0.202	10.2	90	0.00
14		Carbon Disulfide	0.972	0.909	6.5	95	0.00
15		Methylene Chloride	0.488	0.460	5.7	93	0.00
16		Tert Butyl Alcohol	0.021	0.018	14.3	83	0.00
17		trans-1,2-Dichloroethene	0.393	0.375	4.6	95	0.00
18		Acrylonitrile	0.081	0.075	7.4	90	0.00
19		Methyl Tert Butyl Ether	0.575	0.560	2.6	94	0.00
20		Hexane	0.338	0.341	-0.9	100	0.00
21	P	1,1-Dichloroethane	0.478	0.466	2.5	95	0.00
22		ETBE	0.817	0.807	1.2	95	0.00
23		Vinyl acetate	0.473	0.454	4.0	94	0.00
24		Di-isopropyl ether	1.147	1.125	1.9	96	0.00
25		2,2-Dichloropropane	0.189	0.180	4.8	94	0.00
26		cis-1,2-Dichloroethene	0.270	0.260	3.7	98	0.00
27		2-Butanone	0.130	0.118	9.2	89	0.00
28		Bromochloromethane	0.105	0.105	0.0	98	0.00
29	C	Chloroform	0.407	0.376	7.6	96	-0.01
30		Tetrahydrofuran	0.087	0.078	10.3	90	0.00
31		1,1,1-Trichloroethane	0.274	0.259	5.5	93	-0.01
32	S	Dibromofluoromethane	0.210	0.209	0.5	99	0.00
33		Cyclohexane	0.482	0.469	2.7	93	0.00
34		1,1-Dichloropropene	0.287	0.287	0.0	97	0.00
35		Carbon Tetrachloride	0.213	0.205	3.8	96	0.00
36	S	1,2-Dichloroethane-d4	0.258	0.248	3.9	97	0.00
37		TAME	0.668	0.640	4.2	94	0.00
38		Benzene	1.045	1.018	2.6	97	0.00
39		1,2-Dichloroethane	0.331	0.298	10.0	95	0.00
40		Trichloroethene	0.239	0.232	2.9	99	0.00
41		Methylcyclohexane	0.348	0.338	2.9	99	0.00
42	C	1,2-Dichloropropane	0.295	0.293	0.7	98	0.00

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: VB399-CC398
Lab FileID: B0009235.D

43		Dibromomethane	0.143	0.138	3.5	94	0.00
44		1,4-Dioxane	0.002	0.002	0.0	92	0.00
45		Bromodichloromethane	0.300	0.291	3.0	97	0.00
46		2-Nitropropane	0.061	0.061	0.0	95	0.00
47		2-Chloroethyl vinyl ether	0.146	0.122	16.4	83	0.00
48		4-Methyl-2-pentanone	0.290	0.273	5.9	89	0.00
49		cis-1,3-Dichloropropene	0.381	0.385	-1.0	98	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
51	S	Toluene-d8	1.372	1.349	1.7	97	0.00
52	C	Toluene	1.574	1.503	4.5	96	0.00
53		trans-1,3-Dichloropropene	0.475	0.473	0.4	94	0.00
54		1,1,2-Trichloroethane	0.295	0.279	5.4	93	0.00
55		Tetrachloroethene	0.332	0.322	3.0	97	0.00
56		2-hexanone	0.286	0.266	7.0	87	0.00
57		1,3-Dichloropropane	0.557	0.538	3.4	96	0.00
58		Dibromochloromethane	0.290	0.284	2.1	95	0.00
59		1,2-Dibromoethane	0.300	0.279	7.0	93	0.00
60		1-Chlorohexane	0.467	0.465	0.4	94	0.00
61	P	Chlorobenzene	0.936	0.905	3.3	97	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.282	2.8	97	0.00
63	C	Ethylbenzene	1.709	1.633	4.4	94	0.00
64		m,p-Xylene	1.264	1.233	2.5	96	0.00
65		o-Xylene	1.297	1.299	-0.2	95	0.00
66		Styrene	0.996	1.034	-3.8	95	0.00
67	P	Bromoform	0.224	0.216	3.6	94	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
69		Isopropylbenzene	2.478	2.413	2.6	95	0.00
70		Cyclohexanone	0.029	0.020	31.0#	86	0.00
71	S	4-Bromofluorobenzene	0.931	0.899	3.4	97	0.00
72		Bromobenzene	0.783	0.738	5.7	95	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.793	7.8	93	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.122	-0.8	93	0.00
75		1,2,3-Trichloropropane	0.184	0.165	10.3	91	0.00
76		n-Propylbenzene	3.790	3.560	6.1	94	0.00
77		2-Chlorotoluene	2.415	2.311	4.3	96	0.00
78		4-Chlorotoluene	2.187	2.099	4.0	95	0.00
79		1,3,5-Trimethylbenzene	2.114	2.036	3.7	94	0.00
80		sec-Butylbenzene	2.689	2.575	4.2	94	0.00
81		1,3-Dichlorobenzene	1.384	1.345	2.8	95	0.00
82		4-Isopropyltoluene	1.996	1.984	0.6	94	0.00
83		1,4-Dichlorobenzene	1.486	1.406	5.4	96	0.00
84		tert-Butylbenzene	1.266	1.193	5.8	93	0.00
85		n-Butylbenzene	2.232	2.276	-2.0	95	0.00
86		1,2-Dichlorobenzene	1.384	1.321	4.6	94	0.00
87		1,2,4-Trimethylbenzene	2.175	2.151	1.1	94	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.104	3.7	92	0.00
89		1,2,4-Trichlorobenzene	0.770	0.771	-0.1	91	0.00
90		Hexachlorobutadiene	0.353	0.337	4.5	96	0.00
91		Naphthalene	1.752	1.538	12.2	85	0.00
92		1,2,3-Trichlorobenzene	0.683	0.665	2.6	89	0.00

Average % D = 5.2

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B0009215.D 8260APP1.M Wed Apr 17 14:37:06 2002 RPT1

Continuing Calibration Summary

Job Number: F12878 **Sample:** VB400-CC398
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** B0009258.D
Project: CSS Panama City-N2834(CTO-0184)

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041702\B0009258.D Vial: 1
Acq On : 17 Apr 2002 9:56 am Operator: JuanG
Sample : CC398-40PPB Inst : MSVOA4
Misc : ms1463,vb400,5.0,,,5.0,1,water Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.241	0.207	14.1	75	0.00
3	P	Chloromethane	0.479	0.415	13.4	79	0.00
4	C	Vinyl Chloride	0.369	0.308	16.5	74	0.00
5		Bromomethane	0.196	0.188	4.1	86	0.00
6		Chloroethane	0.183	0.170	7.1	82	0.00
7		Trichlorofluoromethane	0.223	0.244	-9.4	98	0.00
8		Acrolein	0.012	0.020	-66.7#	148	0.00
9	C	1,1-Dichloroethene	0.420	0.421	-0.2	89	0.00
10		Freon 113	0.194	0.207	-6.7	89	0.00
11		Acetone	0.078	0.077	1.3	95	0.00
12		Iodomethane	0.289	0.293	-1.4	86	0.00
13		Methyl acetate	0.225	0.226	-0.4	93	0.00
14		Carbon Disulfide	0.972	0.938	3.5	91	0.00
15		Methylene Chloride	0.488	0.487	0.2	91	0.00
16		Tert Butyl Alcohol	0.021	0.022	-4.8	91	0.00
17		trans-1,2-Dichloroethene	0.393	0.380	3.3	89	0.00
18		Acrylonitrile	0.081	0.069	14.8	76	0.00
19		Methyl Tert Butyl Ether	0.575	0.580	-0.9	90	0.00
20		Hexane	0.338	0.340	-0.6	92	0.00
21	P	1,1-Dichloroethane	0.478	0.469	1.9	88	-0.01
22		ETBE	0.817	0.818	-0.1	89	0.00
23		Vinyl acetate	0.473	0.483	-2.1	93	0.00
24		Di-isopropyl ether	1.147	1.120	2.4	88	0.00
25		2,2-Dichloropropane	0.189	0.185	2.1	89	0.00
26		cis-1,2-Dichloroethene	0.270	0.265	1.9	92	0.00
27		2-Butanone	0.130	0.136	-4.6	95	0.00
28		Bromochloromethane	0.105	0.110	-4.8	94	-0.01
29	C	Chloroform	0.407	0.384	5.7	91	0.00
30		Tetrahydrofuran	0.087	0.088	-1.1	93	-0.01
31		1,1,1-Trichloroethane	0.274	0.264	3.6	87	-0.01
32	S	Dibromofluoromethane	0.210	0.208	1.0	91	0.00
33		Cyclohexane	0.482	0.471	2.3	87	0.00
34		1,1-Dichloropropene	0.287	0.290	-1.0	90	0.00
35		Carbon Tetrachloride	0.213	0.217	-1.9	93	0.00
36	S	1,2-Dichloroethane-d4	0.258	0.252	2.3	91	0.00
37		TAME	0.668	0.675	-1.0	91	0.00
38		Benzene	1.045	1.031	1.3	91	0.00
39		1,2-Dichloroethane	0.331	0.309	6.6	91	0.00
40		Trichloroethene	0.239	0.235	1.7	93	0.00
41		Methylcyclohexane	0.348	0.345	0.9	93	0.00
42	C	1,2-Dichloropropane	0.295	0.295	0.0	91	0.00

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: VB400-CC398
Lab FileID: B0009258.D

43		Dibromomethane	0.143	0.146	-2.1	91	0.00
44		1,4-Dioxane	0.002	0.003	-50.0#	103	0.00
45		Bromodichloromethane	0.300	0.301	-0.3	92	0.00
46		2-Nitropropane	0.061	0.069	-13.1	101	0.00
47		2-Chloroethyl vinyl ether	0.146	0.149	-2.1	93	0.00
48		4-Methyl-2-pentanone	0.290	0.314	-8.3	95	0.00
49		cis-1,3-Dichloropropene	0.381	0.400	-5.0	94	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
51	S	Toluene-d8	1.372	1.326	3.4	90	0.00
52	C	Toluene	1.574	1.500	4.7	91	0.00
53		trans-1,3-Dichloropropene	0.475	0.503	-5.9	95	0.00
54		1,1,2-Trichloroethane	0.295	0.296	-0.3	93	0.00
55		Tetrachloroethene	0.332	0.325	2.1	93	0.00
56		2-hexanone	0.286	0.311	-8.7	96	0.00
57		1,3-Dichloropropane	0.557	0.550	1.3	93	0.00
58		Dibromochloromethane	0.290	0.296	-2.1	94	0.00
59		1,2-Dibromoethane	0.300	0.304	-1.3	96	0.00
60		1-Chlorohexane	0.467	0.476	-1.9	91	0.00
61	P	Chlorobenzene	0.936	0.923	1.4	94	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.290	0.0	94	0.00
63	C	Ethylbenzene	1.709	1.680	1.7	92	0.00
64		m,p-Xylene	1.264	1.256	0.6	92	0.00
65		o-Xylene	1.297	1.333	-2.8	92	0.00
66		Styrene	0.996	1.076	-8.0	94	0.00
67	P	Bromoform	0.224	0.244	-8.9	100	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
69		Isopropylbenzene	2.478	2.421	2.3	94	0.00
70		Cyclohexanone	0.029	0.017	41.4#	74	0.00
71	S	4-Bromofluorobenzene	0.931	0.873	6.2	92	0.00
72		Bromobenzene	0.783	0.740	5.5	94	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.850	1.2	97	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.202	-66.9#	150	0.00
75		1,2,3-Trichloropropane	0.184	0.179	2.7	98	0.00
76		n-Propylbenzene	3.790	3.599	5.0	94	0.00
77		2-Chlorotoluene	2.415	2.259	6.5	92	0.00
78		4-Chlorotoluene	2.187	2.093	4.3	94	0.00
79		1,3,5-Trimethylbenzene	2.114	2.039	3.5	93	0.00
80		sec-Butylbenzene	2.689	2.667	0.8	96	0.00
81		1,3-Dichlorobenzene	1.384	1.372	0.9	95	0.00
82		4-Isopropyltoluene	1.996	2.031	-1.8	95	0.00
83		1,4-Dichlorobenzene	1.486	1.450	2.4	97	0.00
84		tert-Butylbenzene	1.266	1.203	5.0	93	0.00
85		n-Butylbenzene	2.232	2.332	-4.5	95	0.00
86		1,2-Dichlorobenzene	1.384	1.371	0.9	95	0.00
87		1,2,4-Trimethylbenzene	2.175	2.177	-0.1	93	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.114	-5.6	100	0.00
89		1,2,4-Trichlorobenzene	0.770	0.848	-10.1	99	0.00
90		Hexachlorobutadiene	0.353	0.351	0.6	99	0.00
91		Naphthalene	1.752	1.775	-1.3	97	0.00
92		1,2,3-Trichlorobenzene	0.683	0.747	-9.4	98	0.00

Average % D = 6.1

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B0009215.D 8260APP1.M Thu Apr 18 10:06:19 2002 RPT1

GC/MS Semi-volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	20.7	41*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	31.1	62*	70-125
120-83-2	2,4-Dichlorophenol	50	22.6	45*	68-125
105-67-9	2,4-Dimethylphenol	50	28.0	56	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	30.7	61	51-125
	3&4-Methylphenol	100	52.1	52	46-125
88-75-5	2-Nitrophenol	50	22.0	44*	64-125
100-02-7	4-Nitrophenol	50	2.8	6*	17-125
87-86-5	Pentachlorophenol	50	11.8	24*	60-125
108-95-2	Phenol	50	13.5	27	16-125
95-95-4	2,4,5-Trichlorophenol	50	23.2	46*	74-125
88-06-2	2,4,6-Trichlorophenol	50	20.0	40*	70-125
83-32-9	Acenaphthene	50	44.9	90	70-125
208-96-8	Acenaphthylene	50	52.6	105	75-125
120-12-7	Anthracene	50	50.1	100	75-125
56-55-3	Benzo(a)anthracene	50	50.0	100	75-125
50-32-8	Benzo(a)pyrene	50	51.3	103	75-125
205-99-2	Benzo(b)fluoranthene	50	46.9	94	75-125
191-24-2	Benzo(g,h,i)perylene	50	54.0	108	57-135
207-08-9	Benzo(k)fluoranthene	50	48.2	96	75-125
101-55-3	4-Bromophenyl phenyl ether	50	47.9	96	74-125
85-68-7	Butyl benzyl phthalate	50	49.2	98	38-134
91-58-7	2-Chloronaphthalene	50	46.2	92	59-125
106-47-8	4-Chloroaniline	50	46.3	93	31-125
86-74-8	Carbazole	50	49.2	98	75-125
218-01-9	Chrysene	50	47.9	96	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	43.1	86	64-125
111-44-4	bis(2-Chloroethyl)ether	50	41.9	84	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	45.7	91	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	49.0	98	75-125
121-14-2	2,4-Dinitrotoluene	50	47.9	96	73-125
606-20-2	2,6-Dinitrotoluene	50	49.6	99	75-125
91-94-1	3,3'-Dichlorobenzidine	50	54.0	108	55-125
53-70-3	Dibenzo(a,h)anthracene	50	53.0	106	64-130

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	44.6	89	73-125
84-74-2	Di-n-butyl phthalate	50	49.7	99	47-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	52-125
84-66-2	Diethyl phthalate	50	48.5	97	59-125
131-11-3	Dimethyl phthalate	50	48.9	98	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.5	105	71-125
206-44-0	Fluoranthene	50	49.9	100	75-125
86-73-7	Fluorene	50	48.4	97	75-125
87-68-3	Hexachlorobutadiene	50	35.4	71	22-125
77-47-4	Hexachlorocyclopentadiene	50	26.2	52	10-125
67-72-1	Hexachloroethane	50	36.4	73	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	52.8	106	53-130
90-12-0	1-Methylnaphthalene	50	40.4	81	55-125
91-57-6	2-Methylnaphthalene	50	41.0	82	51-125
88-74-4	2-Nitroaniline	50	48.1	96	75-125
99-09-2	3-Nitroaniline	50	48.1	96	62-125
100-01-6	4-Nitroaniline	50	51.3	103	67-125
91-20-3	Naphthalene	50	42.6	85	53-125
98-95-3	Nitrobenzene	50	43.9	88	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	44.4	89	61-125
86-30-6	N-Nitrosodiphenylamine	50	52.3	105	75-125
85-01-8	Phenanthrene	50	46.8	94	75-125
129-00-0	Pyrene	50	46.8	94	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	28%	20-125%
4165-62-2	Phenol-d5	22%	10-125%
118-79-6	2,4,6-Tribromophenol	51%	35-140%
4165-60-0	Nitrobenzene-d5	86%	46-125%
321-60-8	2-Fluorobiphenyl	87%	46-125%
1718-51-0	Terphenyl-d14	98%	49-126%

(a) Recovery within control limits in MS/MSD.

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	23.1	46*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	35.5	71	70-125
120-83-2	2,4-Dichlorophenol	50	25.7	51*	68-125
105-67-9	2,4-Dimethylphenol	50	24.3	49	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	33.6	67	51-125
	3&4-Methylphenol	100	58.4	58	46-125
88-75-5	2-Nitrophenol	50	25.2	50*	64-125
100-02-7	4-Nitrophenol	50	3.1	6*	17-125
87-86-5	Pentachlorophenol	50	11.3	23*	60-125
108-95-2	Phenol	50	15.0	30	16-125
95-95-4	2,4,5-Trichlorophenol	50	26.3	53*	74-125
88-06-2	2,4,6-Trichlorophenol	50	22.1	44*	70-125
83-32-9	Acenaphthene	50	48.7	97	70-125
208-96-8	Acenaphthylene	50	56.6	113	75-125
120-12-7	Anthracene	50	56.0	112	75-125
56-55-3	Benzo(a)anthracene	50	54.4	109	75-125
50-32-8	Benzo(a)pyrene	50	57.9	116	75-125
205-99-2	Benzo(b)fluoranthene	50	54.2	108	75-125
191-24-2	Benzo(g,h,i)perylene	50	58.2	116	57-135
207-08-9	Benzo(k)fluoranthene	50	54.6	109	75-125
101-55-3	4-Bromophenyl phenyl ether	50	52.6	105	74-125
85-68-7	Butyl benzyl phthalate	50	53.2	106	38-134
91-58-7	2-Chloronaphthalene	50	50.8	102	59-125
106-47-8	4-Chloroaniline	50	52.4	105	31-125
86-74-8	Carbazole	50	55.0	110	75-125
218-01-9	Chrysene	50	52.7	105	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	48.6	97	64-125
111-44-4	bis(2-Chloroethyl)ether	50	47.9	96	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	50.6	101	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	52.4	105	75-125
121-14-2	2,4-Dinitrotoluene	50	54.2	108	73-125
606-20-2	2,6-Dinitrotoluene	50	55.0	110	75-125
91-94-1	3,3'-Dichlorobenzidine	50	57.5	115	55-125
53-70-3	Dibenzo(a,h)anthracene	50	57.2	114	64-130

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	48.7	97	73-125
84-74-2	Di-n-butyl phthalate	50	54.4	109	47-140
117-84-0	Di-n-octyl phthalate	50	51.2	102	52-125
84-66-2	Diethyl phthalate	50	52.2	104	59-125
131-11-3	Dimethyl phthalate	50	52.9	106	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.7	103	71-125
206-44-0	Fluoranthene	50	55.2	110	75-125
86-73-7	Fluorene	50	52.6	105	75-125
87-68-3	Hexachlorobutadiene	50	39.3	79	22-125
77-47-4	Hexachlorocyclopentadiene	50	30.5	61	10-125
67-72-1	Hexachloroethane	50	40.4	81	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	57.1	114	53-130
90-12-0	1-Methylnaphthalene	50	46.0	92	55-125
91-57-6	2-Methylnaphthalene	50	45.7	91	51-125
88-74-4	2-Nitroaniline	50	53.4	107	75-125
99-09-2	3-Nitroaniline	50	54.0	108	62-125
100-01-6	4-Nitroaniline	50	57.0	114	67-125
91-20-3	Naphthalene	50	48.9	98	53-125
98-95-3	Nitrobenzene	50	50.1	100	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	50.7	101	61-125
86-30-6	N-Nitrosodiphenylamine	50	58.1	116	75-125
85-01-8	Phenanthrene	50	53.4	107	75-125
129-00-0	Pyrene	50	52.1	104	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	30%	20-125%
4165-62-2	Phenol-d5	25%	10-125%
118-79-6	2,4,6-Tribromophenol	56%	35-140%
4165-60-0	Nitrobenzene-d5	98%	46-125%
321-60-8	2-Fluorobiphenyl	96%	46-125%
1718-51-0	Terphenyl-d14	106%	49-126%

(a) Recovery within control limits in MS/MSD.

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS2	W009579.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	55%	20-125%
4165-62-2	Phenol-d5	39%	10-125%
118-79-6	2,4,6-Tribromophenol	94%	35-140%
4165-60-0	Nitrobenzene-d5	78%	46-125%
321-60-8	2-Fluorobiphenyl	84%	46-125%
1718-51-0	Terphenyl-d14	99%	49-126%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	20-125%
4165-62-2	Phenol-d5	31%	10-125%
118-79-6	2,4,6-Tribromophenol	77%	35-140%
4165-60-0	Nitrobenzene-d5	69%	46-125%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	68%	46-125%
1718-51-0	Terphenyl-d14	88%	49-126%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	20-125%
4165-62-2	Phenol-d5	32%	10-125%
118-79-6	2,4,6-Tribromophenol	79%	35-140%
4165-60-0	Nitrobenzene-d5	70%	46-125%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	66%	46-125%
1718-51-0	Terphenyl-d14	84%	49-126%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	20-125%
4165-62-2	Phenol-d5	32%	10-125%
118-79-6	2,4,6-Tribromophenol	81%	35-140%
4165-60-0	Nitrobenzene-d5	72%	46-125%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009600.D	1	04/26/02	ME	04/18/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	70%	46-125%
1718-51-0	Terphenyl-d14	94%	49-126%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB2	W009580.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	20-125%
4165-62-2	Phenol-d5	34%	10-125%
118-79-6	2,4,6-Tribromophenol	73%	35-140%
4165-60-0	Nitrobenzene-d5	71%	46-125%
321-60-8	2-Fluorobiphenyl	70%	46-125%
1718-51-0	Terphenyl-d14	71%	49-126%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	89.7	90	83.3	83	7	59-125/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	91.3	91	86.1	86	6	72-125/20
120-83-2	2,4-Dichlorophenol	ND		100	94.5	95	89.3	89	6	65-125/20
105-67-9	2,4-Dimethylphenol	ND		100	57.7	58	57.2	57	1	37-125/20
51-28-5	2,4-Dinitrophenol	ND		100	47.4	47	68.8	69	37	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		100	78.1	78	80.2	80	3	54-125/20
95-48-7	2-Methylphenol	ND		100	88.7	89	85.0	85	4	57-125/20
	3&4-Methylphenol	ND		200	174	87	164	82	6	55-125/20
88-75-5	2-Nitrophenol	ND		100	95.1	95	88.5	89	7	67-125/20
100-02-7	4-Nitrophenol	ND		100	57.1	57	59.1	59	3	41-125/23
87-86-5	Pentachlorophenol	ND		100	74.9	75	68.6	69	9	67-126/20
108-95-2	Phenol	ND		100	67.6	68	65.2	65	4	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		100	99.7	100	91.8	92	8	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		100	94.3	94	87.7	88	7	70-125/20
83-32-9	Acenaphthene	ND		100	95.5	96	89.3	89	7	74-125/20
208-96-8	Acenaphthylene	ND		100	112	112	105	105	6	75-125/20
120-12-7	Anthracene	ND		100	103	103	97.4	97	6	75-125/20
56-55-3	Benzo(a)anthracene	ND		100	99.6	100	93.8	94	6	75-125/20
50-32-8	Benzo(a)pyrene	ND		100	105	105	99.6	100	5	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		100	98.0	98	94.1	94	4	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		100	107	107	99.5	100	7	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		100	99.8	100	95.2	95	5	75-125/20
101-55-3	4-Bromophenyl phenyl ether	ND		100	100	100	95.8	96	4	73-125/20
85-68-7	Butyl benzyl phthalate	ND		100	95.8	96	89.8	90	6	66-125/20
91-58-7	2-Chloronaphthalene	ND		100	99.0	99	96.0	96	3	64-125/20
106-47-8	4-Chloroaniline	ND		100	91.1	91	85.1	85	7	44-125/20
86-74-8	Carbazole	ND		100	103	103	96.5	97	7	75-125/20
218-01-9	Chrysene	ND		100	97.8	98	89.8	90	9	75-125/20
111-91-1	bis(2-Chloroethoxy)methane	ND		100	95.6	96	89.6	90	6	62-125/20
111-44-4	bis(2-Chloroethyl)ether	ND		100	94.0	94	89.9	90	4	61-125/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	99.8	100	94.5	95	5	56-125/22
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	99.2	99	93.1	93	6	75-125/20
121-14-2	2,4-Dinitrotoluene	ND		100	99.5	100	94.1	94	6	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		100	102	102	96.7	97	5	75-125/20
91-94-1	3,3'-Dichlorobenzidine	ND		100	99.8	100	90.6	91	10	20-125/29
53-70-3	Dibenzo(a,h)anthracene	ND		100	102	102	95.3	95	7	64-127/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		100	94.9	95	90.0	90	5	73-125/20
84-74-2	Di-n-butyl phthalate	ND		100	98.3	98	93.8	94	5	71-125/20
117-84-0	Di-n-octyl phthalate	ND		100	96.4	96	85.9	86	12	66-125/30
84-66-2	Diethyl phthalate	ND		100	95.4	95	89.0	89	7	64-125/20
131-11-3	Dimethyl phthalate	ND		100	99.6	100	92.4	92	7	32-139/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	101	101	89.2	89	12	74-125/20
206-44-0	Fluoranthene	ND		100	102	102	93.7	94	8	75-125/20
86-73-7	Fluorene	ND		100	102	102	94.2	94	8	75-125/20
87-68-3	Hexachlorobutadiene	ND		100	78.8	79	75.4	75	4	26-125/21
77-47-4	Hexachlorocyclopentadiene	ND		100	58.9	59	72.3	72	20	18-125/27
67-72-1	Hexachloroethane	ND		100	78.3	78	76.5	77	2	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	105	105	96.5	97	8	54-125/20
90-12-0	1-Methylnaphthalene	ND		100	89.1	89	85.1	85	5	60-125/20
91-57-6	2-Methylnaphthalene	ND		100	90.9	91	84.6	85	7	58-125/20
88-74-4	2-Nitroaniline	ND		100	98.7	99	94.0	94	5	67-125/20
99-09-2	3-Nitroaniline	ND		100	85.0	85	76.0	76	11	53-125/20
100-01-6	4-Nitroaniline	ND		100	100	100	92.3	92	8	63-125/20
91-20-3	Naphthalene	ND		100	94.1	94	91.2	91	3	55-125/20
98-95-3	Nitrobenzene	ND		100	98.2	98	94.1	94	4	63-125/20
621-64-7	N-Nitroso-di-n-propylamine	ND		100	95.1	95	88.9	89	7	58-125/20
86-30-6	N-Nitrosodiphenylamine	ND		100	109	109	102	102	7	75-125/20
85-01-8	Phenanthrene	ND		100	99.0	99	93.1	93	6	75-125/20
129-00-0	Pyrene	ND		100	99.1	99	89.6	90	10	67-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
367-12-4	2-Fluorophenol	79%	74%	49%	44%	20-125%
4165-62-2	Phenol-d5	62%	61%	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	97%	89%	84%	82%	35-140%
4165-60-0	Nitrobenzene-d5	95%	88%	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	94%	87%	77%	73%	46-125%
1718-51-0	Terphenyl-d14	98%	90%	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-DFTPP **Injection Date:** 04/23/02
Lab File ID: W009519.D **Injection Time:** 10:03
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6) [a]	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9) [b]	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
ZZZZZZ	W009522.D	04/23/02	11:22	01:19	(unrelated sample)
ZZZZZZ	W009523.D	04/23/02	11:52	01:49	(unrelated sample)
ZZZZZZ	W009524.D	04/23/02	12:23	02:20	(unrelated sample)
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
ZZZZZZ	W009527.D	04/23/02	13:53	03:50	(unrelated sample)
F12878-1	W009528.D	04/23/02	14:24	04:21	13GLM03S01
F12878-2	W009529.D	04/23/02	14:54	04:51	13GLM010S01
F12878-3	W009530.D	04/23/02	15:24	05:21	13GLM010I01
F12878-4	W009531.D	04/23/02	15:54	05:51	13RL041102
F12878-5	W009532.D	04/23/02	16:25	06:22	13GLM09I01
F12878-6	W009533.D	04/23/02	16:54	06:51	13GLM09S01
F12878-7	W009534.D	04/23/02	17:24	07:21	13GLM01S01D
F12878-8	W009535.D	04/23/02	17:55	07:52	13GLM16I01
F12878-9	W009536.D	04/23/02	18:25	08:22	13GLM16I01D
F12878-10	W009537.D	04/23/02	18:55	08:52	13GLM16D01
F12878-11	W009538.D	04/23/02	19:24	09:21	13GLM17S01

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	(used for QC only; not part of job F12878)
F12878-12	W009542.D	04/23/02	21:25	11:22	13GLM17I01
F12878-13	W009543.D	04/23/02	21:55	11:52	13GLM17D01
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job F12878)
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW530-DFTPP **Injection Date:** 04/25/02
Lab File ID: W009577.D **Injection Time:** 15:33
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	99158	47.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	70918	33.8		Pass
70	Less than 2.0% of mass 69	410	0.2	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	90603	43.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	209933	100.0		Pass
199	5.0 - 9.0% of mass 198	13726	6.5		Pass
275	10.0 - 30.0% of mass 198	45787	21.8		Pass
365	1.0 - 100.0% of mass 198	4120	2.0		Pass
441	Present, but less than mass 443	29685	14.1	(75.4) [b]	Pass
442	40.0 - 100.0% of mass 198	204309	97.3		Pass
443	17.0 - 23.0% of mass 442	39352	18.7	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW530-CC518	W009578.D	04/25/02	15:51	00:18	Continuing cal 50
OP4993-BS2	W009579.D	04/25/02	16:21	00:48	Blank Spike
OP4993-MB2	W009580.D	04/25/02	16:51	01:18	Method Blank
F12899-2	W009581.D	04/25/02	17:21	01:48	(used for QC only; not part of job F12878)
F12878-1	W009584.D	04/25/02	18:51	03:18	13GLM03S01
F12878-2	W009585.D	04/25/02	19:20	03:47	13GLM010S01
F12878-3	W009586.D	04/25/02	19:51	04:18	13GLM010I01
F12878-4	W009587.D	04/25/02	20:20	04:47	13RL041102
F12878-5	W009588.D	04/25/02	20:50	05:17	13GLM09I01
F12878-6	W009589.D	04/25/02	21:20	05:47	13GLM09S01
F12878-7	W009590.D	04/25/02	21:50	06:17	13GLM01S01D
F12878-8	W009591.D	04/25/02	22:20	06:47	13GLM16I01
F12878-9	W009592.D	04/25/02	22:49	07:16	13GLM16I01D
F12878-10	W009593.D	04/25/02	23:19	07:46	13GLM16D01
F12878-11	W009594.D	04/25/02	23:49	08:16	13GLM17S01
F12878-12	W009595.D	04/26/02	00:19	08:46	13GLM17I01
F12878-13	W009596.D	04/26/02	00:48	09:15	13GLM17D01
ZZZZZZ	W009597.D	04/26/02	01:18	09:45	(unrelated sample)
ZZZZZZ	W009598.D	04/26/02	01:48	10:15	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW530-DFTPP
Lab File ID: W009577.D
Instrument ID: GCMSW
Injection Date: 04/25/02
Injection Time: 15:33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009599.D	04/26/02	02:18	10:45	(unrelated sample)
OP4993-MB	W009600.D	04/26/02	02:48	11:15	Method Blank
ZZZZZZ	W009601.D	04/26/02	03:17	11:44	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW518-DFTPP **Injection Date:** 04/11/02
Lab File ID: W009333.D **Injection Time:** 09:03
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1		Pass
68	Less than 2.0% of mass 69	218	0.1	(0.29) [a]	Pass
69	Mass 69 relative abundance	74456	35.3		Pass
70	Less than 2.0% of mass 69	377	0.18	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	92498	43.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	211051	100.0		Pass
199	5.0 - 9.0% of mass 198	14373	6.8		Pass
275	10.0 - 30.0% of mass 198	45157	21.4		Pass
365	1.0 - 100.0% of mass 198	4255	2.0		Pass
441	Present, but less than mass 443	28291	13.4	(76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	187979	89.1		Pass
443	17.0 - 23.0% of mass 442	36795	17.4	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job F12878)
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job F12878)
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW518-DFTPP
Lab File ID: W009333.D
Instrument ID: GCMSW
Injection Date: 04/11/02
Injection Time: 09:03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW528-DFTPP
Lab File ID: W009555.D
Instrument ID: GCMSW
Injection Date: 04/24/02
Injection Time: 15:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	97809	57.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	68655	40.1		Pass
70	Less than 2.0% of mass 69	347	0.2	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	79722	46.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	171025	100.0		Pass
199	5.0 - 9.0% of mass 198	11119	6.5		Pass
275	10.0 - 30.0% of mass 198	33556	19.6		Pass
365	1.0 - 100.0% of mass 198	3085	1.8		Pass
441	Present, but less than mass 443	18476	10.8	(78.5) [b]	Pass
442	40.0 - 100.0% of mass 198	122253	71.5		Pass
443	17.0 - 23.0% of mass 442	23527	13.8	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW528-CC518	W009556.D	04/24/02	15:27	00:18	Continuing cal 75
OP4993-BS	W009557.D	04/24/02	15:57	00:48	Blank Spike
OP4993-MB	W009558.D	04/24/02	16:27	01:18	Method Blank
OP4993-MS	W009559.D	04/24/02	16:57	01:48	Matrix Spike
OP4993-MSD	W009560.D	04/24/02	17:28	02:19	Matrix Spike Duplicate
ZZZZZZ	W009561.D	04/24/02	17:58	02:49	(unrelated sample)
ZZZZZZ	W009562.D	04/24/02	18:28	03:19	(unrelated sample)
ZZZZZZ	W009563.D	04/24/02	18:58	03:49	(unrelated sample)
ZZZZZZ	W009564.D	04/24/02	19:28	04:19	(unrelated sample)
ZZZZZZ	W009565.D	04/24/02	19:58	04:49	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std: SW527-CC518 **Injection Date:** 04/23/02
Lab File ID: W009520.D **Injection Time:** 10:22
Instrument ID: GCMSW **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	259341	5.19	912494	6.42	433150	8.78	536865	11.32	302343	16.26	199447	18.76
Upper Limit [a]	518682	5.69	1824988	6.92	866300	9.28	1073730	11.82	604686	16.76	398894	19.26
Lower Limit [b]	129671	4.69	456247	5.92	216575	8.28	268433	10.82	151172	15.76	99724	18.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4979-MB	253840	5.19	896872	6.42	421422	8.78	533865	11.31	337085	16.25	209473	18.75
ZZZZZZ	246551	5.19	852067	6.42	403848	8.78	495963	11.31	301638	16.24	193370	18.75
ZZZZZZ	245553	5.19	843939	6.41	392646	8.78	480502	11.31	297606	16.24	192611	18.75
ZZZZZZ	257326	5.19	903992	6.41	435169	8.77	543476	11.31	344822	16.25	223659	18.75
OP4993-BS [c]	234760	5.19	815524	6.42	377077	8.78	469730	11.31	275814	16.25	195065	18.75
OP4993-MB	241156	5.19	860373	6.41	408147	8.78	514950	11.31	327166	16.24	206929	18.75
ZZZZZZ	258616	5.19	890818	6.42	426858	8.78	518945	11.31	312429	16.25	196116	18.75
F12878-1 [d]	241752	5.19	807181	6.42	365349	8.78	425282	11.32	244711	16.25	171978	18.76
F12878-2 [d]	199444	5.19	659395	6.42	294914	8.78	355167	11.32	243582	16.26	178606	18.76
F12878-3 [e]	229066	5.19	818603	6.42	391312	8.78	475830	11.31	302677	16.25	194352	18.76
F12878-4 [e]	255637	5.19	889861	6.41	433120	8.78	543199	11.31	337194	16.25	209347	18.75
F12878-5 [e]	238509	5.19	839521	6.42	397164	8.78	489377	11.31	309934	16.25	200598	18.75
F12878-6 [e]	242231	5.19	840595	6.42	403441	8.78	497498	11.31	297831	16.25	189009	18.75
F12878-7 [d]	208193	5.19	683077	6.42	302708	8.78	358078	11.32	241373	16.26	175200	18.76
F12878-8 [e]	263053	5.19	923033	6.42	441106	8.78	552182	11.31	344758	16.25	211109	18.76
F12878-9 [e]	243365	5.19	852340	6.42	390661	8.78	501427	11.31	315697	16.25	204562	18.75
F12878-10 [e]	255982	5.19	886610	6.42	420898	8.78	527416	11.32	334342	16.25	204951	18.75
F12878-11 [e]	243087	5.19	862067	6.41	407569	8.77	503719	11.31	318686	16.25	200827	18.75
F12899-2	237783	5.19	833382	6.41	387453	8.78	492519	11.31	304364	16.25	193936	18.75
F12878-12 [e]	254705	5.19	866710	6.42	409782	8.78	509097	11.31	322923	16.25	204805	18.75
F12878-13 [e]	226499	5.19	773782	6.42	357997	8.78	451904	11.31	289234	16.25	194811	18.75
OP5023-BS	264429	5.19	922367	6.41	441886	8.78	536864	11.31	310342	16.26	209805	18.76
OP5023-MB	231871	5.19	809279	6.42	384930	8.77	469976	11.31	291635	16.25	188431	18.75
F12946-11	245243	5.19	875236	6.41	408086	8.78	497064	11.31	313368	16.24	203875	18.75
OP5023-MS	256126	5.19	899377	6.42	439354	8.78	528716	11.31	303510	16.25	206398	18.75
OP5023-MSD	254868	5.19	907368	6.42	429728	8.78	527860	11.31	308137	16.25	201945	18.75

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std:	SW527-CC518	**Injection Date:**	04/23/02
Lab File ID:	W009520.D	**Injection Time:**	10:22
Instrument ID:	GCMSW	**Method:**	SW846 8270C

Lab	**IS 1**		**IS 2**		**IS 3**		**IS 4**		**IS 5**		**IS 6**	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recovery within control limits in MS/MSD.
(d) Confirmed by re-extraction and reanalysis beyond holdtime.
(e) Confirmed ND by re-extraction and reanalysis beyond holdtime.

Semivolatile Internal Standard Area Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std: SW530-CC518 **Injection Date:** 04/25/02
Lab File ID: W009578.D **Injection Time:** 15:51
Instrument ID: GCMSW **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	274442	5.18	973388	6.41	479331	8.76	618179	11.29	361231	16.23	246631	18.73
Upper Limit [a]	548884	5.68	1946776	6.91	958662	9.26	1236358	11.79	722462	16.73	493262	19.23
Lower Limit [b]	137221	4.68	486694	5.91	239666	8.26	309090	10.79	180616	15.73	123316	18.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4993-BS2	256527	5.18	915716	6.40	440962	8.76	569383	11.29	344512	16.23	232014	18.73
OP4993-MB2	261751	5.18	944140	6.40	466170	8.76	603552	11.29	411404	16.22	263246	18.73
F12899-2	277639	5.18	989197	6.40	482294	8.76	627621	11.29	406800	16.22	260294	18.72
F12878-1	264410	5.18	914081	6.40	430581	8.76	528304	11.30	315850	16.24	197868	18.74
F12878-2	277440	5.18	937870	6.40	429250	8.77	527525	11.31	310557	16.23	186675	18.73
F12878-3	255811	5.18	902179	6.40	432850	8.76	540247	11.29	355128	16.22	217765	18.73
F12878-4	286105	5.18	1021891	6.40	511319	8.75	655606	11.29	430458	16.22	259262	18.73
F12878-5	276609	5.18	968260	6.40	478175	8.75	610362	11.29	398308	16.23	237566	18.73
F12878-6	263271	5.18	927923	6.40	461325	8.76	586366	11.29	367910	16.22	225781	18.73
F12878-7	268454	5.18	888830	6.41	409801	8.76	491297	11.30	286971	16.24	173933	18.74
F12878-8	280659	5.18	1023157	6.40	502917	8.76	656347	11.29	416263	16.23	254451	18.73
F12878-9	272450	5.18	972538	6.40	468699	8.76	580984	11.29	363220	16.22	224168	18.73
F12878-10	264656	5.18	925670	6.40	437250	8.76	535550	11.29	338159	16.22	204720	18.72
F12878-11	278789	5.18	989729	6.40	480080	8.76	582475	11.29	382863	16.22	235788	18.73
F12878-12	273366	5.18	970291	6.40	471939	8.76	614266	11.29	391140	16.22	243650	18.73
F12878-13	261072	5.18	935631	6.40	458238	8.75	581518	11.29	380457	16.22	234104	18.73
ZZZZZZ	279618	5.18	993353	6.40	492310	8.76	636523	11.29	420886	16.22	250046	18.73
ZZZZZZ	288451	5.18	1026709	6.40	501030	8.75	641121	11.29	399251	16.22	243398	18.72
ZZZZZZ	274877	5.18	979167	6.40	474530	8.76	613383	11.29	396529	16.22	239959	18.73
OP4993-MB	249019	5.18	889322	6.40	430803	8.76	548354	11.29	352790	16.22	213060	18.72
ZZZZZZ	281878	5.18	1016784	6.40	497588	8.76	643368	11.29	404184	16.22	241597	18.73

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std: SW528-CC518 **Injection Date:** 04/24/02
Lab File ID: W009556.D **Injection Time:** 15:27
Instrument ID: GCMSW **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	215371	5.19	752961	6.41	344058	8.77	422152	11.30	234026	16.24	156629	18.74
Upper Limit [a]	430742	5.69	1505922	6.91	688116	9.27	844304	11.80	468052	16.74	313258	19.24
Lower Limit [b]	107686	4.69	376481	5.91	172029	8.27	211076	10.80	117013	15.74	78315	18.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP4993-BS [c]	216703	5.19	754557	6.41	361004	8.77	434369	11.30	256270	16.24	167650	18.74
OP4993-MB	252297	5.18	888555	6.41	422232	8.76	519142	11.30	340099	16.23	215247	18.74
OP4993-MS	221104	5.18	762546	6.41	359228	8.77	436091	11.30	249853	16.24	170968	18.74
OP4993-MSD	243017	5.19	842234	6.41	394079	8.77	466192	11.30	270515	16.24	176656	18.74
ZZZZZZ	257390	5.18	892534	6.41	429496	8.76	536398	11.30	354267	16.24	234156	18.74
ZZZZZZ	265813	5.18	928815	6.41	425423	8.76	526875	11.30	318922	16.23	196810	18.74
ZZZZZZ	262246	5.18	913022	6.41	433316	8.76	541441	11.30	343478	16.23	221373	18.74
ZZZZZZ	272033	5.18	935376	6.41	432929	8.77	527313	11.30	325697	16.23	205386	18.74
ZZZZZZ	251938	5.19	890257	6.41	412798	8.76	513119	11.30	325568	16.23	215080	18.74

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recovery within control limits in MS/MSD.

Semivolatile Surrogate Recovery Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F12878-1	W009584.D	34.0	24.0	90.0	74.0	80.0	83.0
F12878-1	W009528.D	41.0	28.0	86.0	74.0	74.0	73.0
F12878-2	W009585.D	53.0	38.0	101.0	92.0	93.0	91.0
F12878-2	W009529.D	50.0	32.0	94.0	86.0	84.0	78.0
F12878-3	W009586.D	41.0	31.0	75.0	77.0	77.0	82.0
F12878-3	W009530.D	57.0	38.0	92.0	86.0	80.0	87.0
F12878-4	W009587.D	47.0	33.0	78.0	71.0	69.0	81.0
F12878-4	W009531.D	47.0	32.0	77.0	70.0	68.0	83.0
F12878-5	W009588.D	55.0	38.0	88.0	86.0	85.0	82.0
F12878-5	W009532.D	53.0	35.0	85.0	82.0	78.0	81.0
F12878-6	W009589.D	46.0	31.0	90.0	79.0	76.0	85.0
F12878-6	W009533.D	47.0	31.0	91.0	77.0	75.0	87.0
F12878-7	W009590.D	53.0	35.0	98.0	92.0	93.0	90.0
F12878-7	W009534.D	43.0	27.0	92.0	86.0	84.0	77.0
F12878-8	W009591.D	56.0	38.0	90.0	91.0	90.0	89.0
F12878-8	W009535.D	51.0	34.0	85.0	84.0	80.0	82.0
F12878-9	W009592.D	54.0	36.0	92.0	86.0	84.0	91.0
F12878-9	W009536.D	56.0	38.0	86.0	86.0	86.0	83.0
F12878-10	W009593.D	42.0	28.0	79.0	67.0	69.0	78.0
F12878-10	W009537.D	51.0	33.0	82.0	82.0	77.0	78.0
F12878-11	W009594.D	49.0	34.0	93.0	77.0	78.0	86.0
F12878-11	W009538.D	56.0	37.0	90.0	86.0	82.0	82.0
F12878-12	W009595.D	50.0	34.0	93.0	85.0	85.0	89.0
F12878-12	W009542.D	48.0	31.0	82.0	80.0	75.0	78.0
F12878-13	W009596.D	44.0	29.0	95.0	74.0	75.0	92.0
F12878-13	W009543.D	50.0	32.0	89.0	86.0	85.0	85.0
OP4993-BS	W009525.D	28.0	22.0	51.0	86.0	87.0	98.0
OP4993-BS	W009557.D	30.0	25.0	56.0	98.0	96.0	106.0
OP4993-BS2	W009579.D	55.0	39.0	94.0	78.0	84.0	99.0
OP4993-MB	W009526.D	46.0	31.0	77.0	69.0	68.0	88.0
OP4993-MB	W009558.D	46.0	32.0	79.0	70.0	66.0	84.0
OP4993-MB	W009600.D	47.0	32.0	81.0	72.0	70.0	94.0
OP4993-MB2	W009580.D	48.0	34.0	73.0	71.0	70.0	71.0
OP4993-MS	W009559.D	79.0	62.0	97.0	95.0	94.0	98.0
OP4993-MSD	W009560.D	74.0	61.0	89.0	88.0	87.0	90.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	20-125%

Semivolatile Surrogate Recovery Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S2 = Phenol-d5	10-125%
S3 = 2,4,6-Tribromophenol	35-140%
S4 = Nitrobenzene-d5	46-125%
S5 = 2-Fluorobiphenyl	46-125%
S6 = Terphenyl-d14	49-126%

Initial Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: SW518-ICC518
Lab FileID: W009337.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:51:43 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------ISTD----------							
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22

Initial Calibration Summary

Job Number: F12878 **Sample:** SW518-ICC518
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** W009337.D
Project: CSS Panama City-N2834(CTO-0184)

45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.5

(#) = Out of Range

8270C.M Thu Apr 11 16:38:38 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-CC518
Lab FileID: W009520.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D Vial: 2
Acq On : 23 Apr 2002 10:22 am Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op4979,sw527,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-CC518
Lab FileID: W009520.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01
44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-CC518
Lab FileID: W009520.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 W009334.D  8270C.M          Wed Apr 24 13:53:45 2002   MSBNA01
```

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW530-CC518
Lab FileID: W009578.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042502A\W009578.D Vial: 2
Acq On : 25 Apr 2002 3:51 pm Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op5034,sw530,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	-0.02
2		1,4-Dioxane	0.445	0.473	-6.3	130	0.00
3		N-nitrosodimethylamine	0.558	0.493	11.6	120	-0.08
4		Pyridine	1.008	0.997	1.1	125	-0.07
5		Benzaldehyde	0.502	0.595	-18.5	139	-0.02
6		Aniline	1.505	1.508	-0.2	118	-0.02
7	S	2-Fluorophenol	1.207	1.215	-0.7	122	-0.03
8		bis(2-Chloroethyl)ether	1.266	1.297	-2.4	125	-0.02
9	S	Phenol-d5	1.457	1.442	1.0	121	-0.02
10	C	Phenol	1.599	1.595	0.3	120	-0.02
11		2-Chlorophenol	1.394	1.369	1.8	120	-0.02
12		1,3-Dichlorobenzene	1.523	1.520	0.2	125	-0.02
13	C	1,4-Dichlorobenzene	1.484	1.487	-0.2	123	-0.02
14		1,2-Dichlorobenzene	1.387	1.404	-1.2	122	-0.02
15		Benzyl alcohol	0.859	0.858	0.1	123	-0.02
16		bis(2-chloroisopropyl)ether	2.806	2.938	-4.7	126	-0.02
17		2-Methylphenol	1.143	1.139	0.3	125	-0.02
18		Acetophenone	1.539	1.479	3.9	119	-0.02
19		Hexachloroethane	0.548	0.543	0.9	120	-0.01
20	P	N-Nitroso-di-n-propylamine	0.792	0.757	4.4	119	-0.02
21		3&4-Methylphenol	1.094	1.060	3.1	120	-0.01
22	I	Naphthalene-d8	1.000	1.000	0.0	121	-0.01
23	S	Nitrobenzene-d5	0.369	0.369	0.0	122	-0.02
24		Nitrobenzene	0.351	0.354	-0.9	124	-0.02
25		Isophorone	0.640	0.633	1.1	122	-0.02
26	C	2-Nitrophenol	0.212	0.214	-0.9	124	-0.02
27		2,4-Dimethylphenol	0.344	0.341	0.9	121	-0.02
28		bis(2-Chloroethoxy)methane	0.388	0.382	1.5	118	-0.02
29		Benzoic Acid	0.247	0.261	-5.7	132	0.00
30	C	2,4-Dichlorophenol	0.304	0.309	-1.6	121	-0.02
31		1,2,4-Trichlorobenzene	0.306	0.309	-1.0	124	-0.02
32		Naphthalene	0.959	0.956	0.3	123	-0.02
33		4-Chloroaniline	0.350	0.356	-1.7	124	-0.01
34		2,6-Dichlorophenol	0.288	0.287	0.3	122	-0.01
35	C	Hexachlorobutadiene	0.179	0.175	2.2	119	-0.01
36		Caprolactam	0.194	0.203	-4.6	130	-0.03
37	C	4-Chloro-3-methylphenol	0.276	0.278	-0.7	124	-0.01
38		2-Methylnaphthalene	0.647	0.646	0.2	123	0.00
39		1-Methylnaphthalene	0.614	0.621	-1.1	126	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.275	0.275	0.0	122	-0.01

Continuing Calibration Summary

Job Number: F12878 **Sample:** SW530-CC518
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** W009578.D
Project: CSS Panama City-N2834(CTO-0184)

41	I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.02
42	P	Hexachlorocyclopentadiene	0.282	0.268	5.0	113	-0.03
43	C	2,4,6-Trichlorophenol	0.405	0.407	-0.5	127	-0.03
44		2,4,5-Trichlorophenol	0.423	0.423	0.0	121	-0.03
45	S	2-Fluorobiphenyl	1.362	1.359	0.2	124	-0.03
46		1,1'-Biphenyl	1.455	1.444	0.8	123	-0.03
47		2-Chloronaphthalene	1.182	1.186	-0.3	123	-0.03
48		2-Nitroaniline	0.357	0.363	-1.7	127	-0.03
49		Acenaphthylene	1.551	1.577	-1.7	128	-0.03
50		Dimethylphthalate	1.254	1.273	-1.5	128	-0.03
51		2,6-Dinitrotoluene	0.292	0.294	-0.7	126	-0.02
52	C	Acenaphthene	1.083	1.079	0.4	124	-0.03
53		3-Nitroaniline	0.319	0.334	-4.7	129	-0.02
54	P	2,4-Dinitrophenol	0.167	0.165	1.2	129	-0.02
55		Dibenzofuran	1.534	1.521	0.8	125	-0.02
56		2,4-Dinitrotoluene	0.348	0.349	-0.3	124	-0.02
57	P	4-Nitrophenol	0.142	0.138	2.8	119	-0.03
58		2,3,4,6-Tetrachlorophenol	0.281	0.280	0.4	121	-0.02
59		Fluorene	1.173	1.194	-1.8	126	-0.02
60		4-Chlorophenyl-phenylether	0.544	0.557	-2.4	127	-0.01
61		Diethylphthalate	1.121	1.123	-0.2	126	-0.02
62		4-Nitroaniline	0.281	0.303	-7.8	129	-0.03
63	I	Phenanthrene-d10	1.000	1.000	0.0	129	-0.02
64		4,6-Dinitro-2-methylphenol	0.174	0.169	2.9	126	-0.04
65	C	n-Nitrosodiphenylamine	0.622	0.624	-0.3	129	-0.03
66		1,2-Diphenylhydrazine	0.886	0.845	4.6	122	-0.04
67	S	2,4,6-Tribromophenol	0.104	0.102	1.9	124	-0.04
68		4-Bromophenyl-phenylether	0.213	0.207	2.8	122	-0.03
69		Hexachlorobenzene	0.213	0.207	2.8	125	-0.03
70		Atrazine	0.095	0.084	11.6	112	-0.02
71	C	Pentachlorophenol	0.131	0.121	7.6	109	-0.03
72		Phenanthrene	1.155	1.139	1.4	127	-0.03
73		Anthracene	1.146	1.115	2.7	124	-0.03
74		Carbazole	1.095	1.070	2.3	121	-0.02
75		Di-n-butylphthalate	1.238	1.205	2.7	119	0.00
76	C	Fluoranthene	1.088	1.054	3.1	119	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	120	-0.03
78		Benzidine	0.192	0.237	-23.4#	136	-0.04
79		Pyrene	1.874	1.851	1.2	123	-0.05
80	S	Terphenyl-d14	1.108	1.099	0.8	122	-0.04
81		Butylbenzylphthalate	0.761	0.769	-1.1	121	-0.02
82		3,3'-Dichlorobenzidine	0.346	0.373	-7.8	128	-0.03
83		Benzo[a]anthracene	1.303	1.315	-0.9	121	-0.03
84		Chrysene	1.276	1.290	-1.1	123	-0.04
85		bis(2-Ethylhexyl)phthalate	0.948	0.977	-3.1	123	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	119	-0.03
87	C	Di-n-octylphthalate	2.177	2.188	-0.5	119	-0.03
88		Benzo[b]fluoranthene	1.460	1.433	1.8	119	-0.04
89		Benzo[k]fluoranthene	1.498	1.454	2.9	117	-0.04
90	C	Benzo[a]pyrene	1.267	1.263	0.3	118	-0.03
91		Indeno[1,2,3-cd]pyrene	0.945	0.916	3.1	109	-0.03
92		Dibenz[a,h]anthracene	1.019	1.024	-0.5	115	-0.03
93		Benzo[g,h,i]perylene	1.028	1.004	2.3	115	-0.04

Average % D = 2.5

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW530-CC518
Lab FileID: W009578.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 W009334.D  8270C.M          Fri Apr 26 14:17:17 2002   MSBNA01
```

Continuing Calibration Summary

Job Number: F12878 **Sample:** SW528-CC518
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** W009556.D
Project: CSS Panama City-N2834(CTO-0184)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042402\W009556.D Vial: 2
Acq On : 24 Apr 2002 3:27 pm Operator: marke
Sample : cc518-75 Inst : MSBNA01
Misc : op5023,sw528,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.445	0.474	-6.5	88	0.00
3		N-nitrosodimethylamine	0.558	0.542	2.9	75	-0.08
4		Pyridine	1.008	1.044	-3.6	85	-0.07
5		Benzaldehyde	0.502	0.489	2.6	96	-0.01
6		Aniline	1.505	1.410	6.3	85	-0.01
7	S	2-Fluorophenol	1.207	1.175	2.7	88	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.270	-0.3	87	-0.01
9	S	Phenol-d5	1.457	1.382	5.1	88	0.00
10	C	Phenol	1.599	1.524	4.7	89	-0.01
11		2-Chlorophenol	1.394	1.338	4.0	85	-0.01
12		1,3-Dichlorobenzene	1.523	1.471	3.4	87	0.00
13	C	1,4-Dichlorobenzene	1.484	1.450	2.3	88	0.00
14		1,2-Dichlorobenzene	1.387	1.367	1.4	88	-0.01
15		Benzyl alcohol	0.859	0.830	3.4	85	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.782	0.9	91	-0.01
17		2-Methylphenol	1.143	1.082	5.3	85	0.00
18		Acetophenone	1.539	1.385	10.0	84	0.00
19		Hexachloroethane	0.548	0.538	1.8	88	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.706	10.9	82	-0.01
21		3&4-Methylphenol	1.094	0.989	9.6	85	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
23	S	Nitrobenzene-d5	0.369	0.361	2.2	85	0.00
24		Nitrobenzene	0.351	0.346	1.4	86	-0.01
25		Isophorone	0.640	0.594	7.2	82	-0.01
26	C	2-Nitrophenol	0.212	0.207	2.4	86	0.00
27		2,4-Dimethylphenol	0.344	0.322	6.4	83	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.363	6.4	85	0.00
29		Benzoic Acid	0.247	0.256	-3.6	82	0.02
30	C	2,4-Dichlorophenol	0.304	0.295	3.0	86	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	85	0.00
32		Naphthalene	0.959	0.918	4.3	85	0.00
33		4-Chloroaniline	0.350	0.321	8.3	84	0.00
34		2,6-Dichlorophenol	0.288	0.271	5.9	85	0.00
35	C	Hexachlorobutadiene	0.179	0.169	5.6	84	0.00
36		Caprolactam	0.194	0.180	7.2	80	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.258	6.5	82	0.00
38		2-Methylnaphthalene	0.647	0.614	5.1	83	0.00
39		1-Methylnaphthalene	0.614	0.575	6.4	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.257	6.5	85	0.00

Continuing Calibration Summary

Job Number: F12878 **Sample:** SW528-CC518
Account: TETRFLTA Tetra-Tech, NUS **Lab FileID:** W009556.D
Project: CSS Panama City-N2834(CTO-0184)

41	I	Acenaphthene-d10	1.000	1.000	0.0	79	-0.01
42	P	Hexachlorocyclopentadiene	0.282	0.285	-1.1	77	-0.02
43	C	2,4,6-Trichlorophenol	0.405	0.401	1.0	81	-0.02
44		2,4,5-Trichlorophenol	0.423	0.419	0.9	81	-0.02
45	S	2-Fluorobiphenyl	1.362	1.342	1.5	82	-0.02
46		1,1'-Biphenyl	1.455	1.439	1.1	82	-0.02
47		2-Chloronaphthalene	1.182	1.193	-0.9	84	-0.02
48		2-Nitroaniline	0.357	0.360	-0.8	81	-0.02
49		Acenaphthylene	1.551	1.527	1.5	80	-0.02
50		Dimethylphthalate	1.254	1.199	4.4	78	-0.02
51		2,6-Dinitrotoluene	0.292	0.287	1.7	78	-0.01
52	C	Acenaphthene	1.083	1.056	2.5	81	-0.02
53		3-Nitroaniline	0.319	0.308	3.4	76	-0.01
54	P	2,4-Dinitrophenol	0.167	0.152	9.0	70	-0.01
55		Dibenzofuran	1.534	1.495	2.5	83	-0.01
56		2,4-Dinitrotoluene	0.348	0.340	2.3	81	-0.01
57	P	4-Nitrophenol	0.142	0.130	8.5	73	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.266	5.3	77	0.00
59		Fluorene	1.173	1.141	2.7	81	0.00
60		4-Chlorophenyl-phenylether	0.544	0.528	2.9	82	0.00
61		Diethylphthalate	1.121	1.031	8.0	74	0.00
62		4-Nitroaniline	0.281	0.279	0.7	80	-0.02
63	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
64		4,6-Dinitro-2-methylphenol	0.174	0.164	5.7	73	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.612	1.6	78	-0.02
66		1,2-Diphenylhydrazine	0.886	0.866	2.3	78	-0.03
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	77	-0.03
68		4-Bromophenyl-phenylether	0.213	0.210	1.4	78	-0.02
69		Hexachlorobenzene	0.213	0.205	3.8	78	-0.02
70		Atrazine	0.095	0.073	23.2#	63	-0.01
71	C	Pentachlorophenol	0.131	0.114	13.0	66	-0.01
72		Phenanthrene	1.155	1.113	3.6	78	-0.01
73		Anthracene	1.146	1.094	4.5	77	-0.02
74		Carbazole	1.095	1.049	4.2	78	-0.01
75		Di-n-butylphthalate	1.238	1.121	9.5	72	0.00
76	C	Fluoranthene	1.088	1.006	7.5	76	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	80	-0.02
78		Benzidine	0.192	0.132	31.3#	69	-0.03
79		Pyrene	1.874	1.825	2.6	76	-0.04
80	S	Terphenyl-d14	1.108	1.058	4.5	74	-0.03
81		Butylbenzylphthalate	0.761	0.714	6.2	72	-0.01
82		3,3'-Dichlorobenzidine	0.346	0.354	-2.3	85	-0.01
83		Benzo[a]anthracene	1.303	1.282	1.6	77	-0.01
84		Chrysene	1.276	1.240	2.8	76	-0.02
85		bis(2-Ethylhexyl)phthalate	0.948	0.849	10.4	68	0.00
86	I	Perylene-d12	1.000	1.000	0.0	76	-0.02
87	C	Di-n-octylphthalate	2.177	1.994	8.4	67	-0.02
88		Benzo[b]fluoranthene	1.460	1.415	3.1	73	-0.02
89		Benzo[k]fluoranthene	1.498	1.439	3.9	76	-0.03
90	C	Benzo[a]pyrene	1.267	1.263	0.3	76	-0.02
91		Indeno[1,2,3-cd]pyrene	0.945	0.995	-5.3	81	0.00
92		Dibenz[a,h]anthracene	1.019	1.074	-5.4	80	-0.01
93		Benzo[g,h,i]perylene	1.028	1.062	-3.3	81	-0.02

Average % D = 4.8

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW528-CC518
Lab FileID: W009556.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 W009337.D  8270C.M          Thu Apr 25 09:30:16 2002   MSBNA01
```

GC Volatiles

QC Data Summaries

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY117-BS	XY008396.D	1	04/18/02	RA	n/a	n/a	GXY117

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-1, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.4	95	50-150
74-84-0	Ethane	22	20.0	91	50-150
74-85-1	Ethene	29	27.6	95	50-150

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY120-BS	XY008447.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.4	95	50-150
74-84-0	Ethane	22	21.5	98	50-150
74-85-1	Ethene	29	28.8	99	50-150

Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12878-1DUP	XY008406.D	1	04/18/02	RA	n/a	n/a	GXY117
F12878-1	XY008399.D	1	04/18/02	RA	n/a	n/a	GXY117

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-1, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8

CAS No.	Compound	F12878-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	623		573		8	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12899-2DUP	XY008450.D	1	04/23/02	RA	n/a	n/a	GXY120
F12899-2	XY008449.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	F12899-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	ND		ND		nc	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY117-MB	XY008395.D	1	04/18/02	RA	n/a	n/a	GXY117

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-1, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY120-MB	XY008448.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Initial Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: GXY114-ICC114
Lab FileID: XY008338.D

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Initial Calibration

Calibration Files
1 =XY008336.D 2 =XY008337.D 3 =XY008338.D
4 =XY008339.D 5 =XY008340.D 6 =XY008341.D 7 =XY008342.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane	1.066	0.864	0.983	0.953	0.878	0.989	0.955	E4	7.88
2) Ethylene	1.938	1.681	1.912	1.848	1.682	1.876	1.823	E4	6.23
3) Ethane	1.938	1.992	1.885	1.832	1.706	1.905	1.876	E4	5.28

Average % RSD = 6.5

(#) = Out of Range

DGMEE.M Tue Apr 16 09:14:01 2002 QRXY

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: GXY117-CC114
Lab FileID: XY008393.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\041802\XY008393.D          Vial: 100
Acq On    : 18 Apr 2002   9:27 am                    Operator: RachidA
Sample    : CC114-500ppmv                            Inst    : VOA5
Misc      : gc1765,gxy117,,,,,                       Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title        : Dissolved Gases in Water
Last Update  : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	538.523	-7.7	105	-0.04
2	Ethylene	500.000	550.415	-10.1	105	-0.04
3	Ethane	500.000	534.486	-6.9	106	-0.05

Average % D = 8.2

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008339.D DGMEE.M Fri Apr 19 08:52:41 2002 QRXY

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: GXY117-CC114
Lab FileID: XY008407.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\041802\XY008407.D          Vial: 2
Acq On    : 18 Apr 2002   2:39 pm                   Operator: RachidA
Sample    : CC114-1000ppmv                          Inst    : VOA5
Misc      : gc1765,gxy117,,,,,                      Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title        : Dissolved Gases in Water
Last Update  : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	1078.459	-7.8	108	-0.07
2	Ethylene	1000.000	1098.043	-9.8	108	-0.06
3	Ethane	1000.000	1060.243	-6.0	109	-0.06

Average % D = 7.9

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008340.D DGMEE.M Fri Apr 19 08:53:01 2002 QRXY

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: GXY117-ECC114
Lab FileID: XY008413.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\041802\XY008413.D          Vial: 100
Acq On    : 18 Apr 2002   4:38 pm                   Operator: RachidA
Sample    : ECC114-5000ppmv                         Inst    : VOA5
Misc      : gc1765,gxy117,,,,,                      Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title        : Dissolved Gases in Water
Last Update  : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	5000.000	3760.102	24.8	82	-0.03
2	Ethylene	5000.000	3883.057	22.3	84	-0.10
3	Ethane	5000.000	3863.681	22.7	85	-0.11

Average % D = 23.3

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008341.D DGMEE.M Fri Apr 19 08:53:23 2002 QRXY

Initial Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: GXY119-ICC119
Lab FileID: XY008435.D

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Initial Calibration

Calibration Files
1 =XY008433.D 2 =XY008434.D 3 =XY008435.D
4 =XY008436.D 5 =XY008437.D 6 =XY008438.D 7 =XY008439.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane		1.008	0.904	0.914	0.925	0.915	0.988	0.942 E4	4.67
2) Ethylene	1.642	1.831	1.758	1.775	1.780	1.755	1.879	1.774 E4	4.15
3) Ethane	1.618	1.771	1.728	1.762	1.770	1.788	1.910	1.764 E4	4.88

Average % RSD = 4.6

(#) = Out of Range

DGMEE.M Tue Apr 23 14:12:24 2002 QRXY

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: GXY120-CC119
Lab FileID: XY008444.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\042302\XY008444.D          Vial: 100
Acq On    : 23 Apr 2002   8:29 am                    Operator: RachidA
Sample    : CC119-500ppmv                            Inst    : VOA5
Misc      : gc1765,gxy120,,,,,                       Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title        : Dissolved Gases in Water
Last Update  : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	515.537	-3.1	106	-0.03
2	Ethylene	500.000	533.665	-6.7	107	-0.04
3	Ethane	500.000	537.292	-7.5	108	-0.04

Average % D = 5.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008436.D DGMEE.M Wed Apr 24 15:34:04 2002 QRXY

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: GXY120-CC119
Lab FileID: XY008457.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\042302\XY008457.D          Vial: 100
Acq On    : 23 Apr 2002   3:09 pm                   Operator: RachidA
Sample    : CC119-1000ppmv                          Inst    : VOA5
Misc      : gc1765,gxy120,,,,,                      Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title        : Dissolved Gases in Water
Last Update  : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	981.357	1.9	100	-0.10
2	Ethylene	1000.000	1019.728	-2.0	102	-0.10
3	Ethane	1000.000	1016.480	-1.6	101	-0.08

Average % D = 1.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008437.D DGMEE.M Wed Apr 24 15:33:29 2002 QRXY

Metals Analysis

QC Data Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2774
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:13	MA2774-ICV1	1		
10:16	MA2774-ICB1	1		
10:19	MA2774-CRI1	1		
10:22	MA2774-ICSA1	1		
10:26	MA2774-ICSA2	1		
10:29	MA2774-ICSAB1	1		
10:33	MA2774-CCV1	1		
10:38	MA2774-CCB1	1		
10:42	MP4343-MB1	1		
10:46	MP4343-B1	1		
10:50	F12902-1	1		(sample used for QC only; not part of login F12878)
10:54	MP4343-S1	1		
10:57	MP4343-D1	1		
11:01	MP4343-SD1	5		
11:05	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:21	MA2774-CCV2	1		
11:26	MA2774-CCB2	1		
11:49	ZZZZZZ	1		
11:53	MP4344-MB1	1		
11:57	MP4344-B1	1		
12:01	F12913-1	1		(sample used for QC only; not part of login F12878)
12:05	MP4344-S1	1		
12:08	MP4344-S2	1		
12:12	MP4344-D1	1		
12:16	MP4344-SD1	5		
12:20	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:28	MA2774-CCV3	1		
12:33	MA2774-CCB3	1		
12:37	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2774
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:41	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:16	MA2774-CCV4	1		
13:21	MA2774-CCB4	1		
13:25	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:45	F12878-1	1		
13:49	F12878-2	1		
---------->	Last reportable sample/prep for job F12878			
13:52	ZZZZZZ	10		
14:09	MA2774-CCV5	1		
14:14	MA2774-CCB5	1		
---------->	Last reportable CCB for job F12878			

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2774 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56								
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	0.91	<10	0.090	<10	0.42	<10	-0.11	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	-1.6	<1000	4.1	<1000	-3.0	<1000	13.3	<1000
Chromium	10	.43	anr							
Cobalt	50	.5								
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	-0.15	<5000	9.2	<5000	0.17	<5000	3.0	<5000
Manganese	15	.16	-0.090	<15	-1.7	<15<	-1.6	<15<	-1.4	<15
Molybdenum	50	.75								
Nickel	40	1.08	anr							
Potassium	5000	13.9	641	<5000<	626	<5000<	643	<5000<	655	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	-110	<5000	-40	<5000	120	<5000	59.4	<5000
Thallium	0.010	1.49								
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2774 Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final
Aluminum	200	6.56				
Antimony	0.0050	1.52	anr			
Arsenic	0.010	2.83	-0.56	<10	2.4	<10
Barium	200	.49	anr			
Beryllium	5.0	.26	anr			
Cadmium	5.0	.26	anr			
Calcium	1000	3.82	10.6	<1000	8.1	<1000
Chromium	10	.43	anr			
Cobalt	50	.5				
Copper	25	.44	anr			
Iron	300	7.11	anr			
Lead	0.0050	1.22	anr			
Magnesium	5000	9.88	6.2	<5000	10.1	<5000
Manganese	15	.16	-1.4	<15	-1.2	<15
Molybdenum	50	.75				
Nickel	40	1.08	anr			
Potassium	5000	13.9	633	<5000<	666	<5000<
Selenium	0.010	1.98	anr			
Silver	10	.55	anr			
Sodium	5000	145	192	<5000	88.9	<5000
Thallium	0.010	1.49				
Tin	50	2.18				
Vanadium	50	.47	anr			
Zinc	20	.59	anr			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2774 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2.0	2020	101.0	2.0	2040	102.0	2.0	2060	103.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42700	106.8	40	43000	107.5	40	43500	108.8
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41900	104.8	40	42100	105.3	40	42600	106.5
Manganese	2.0	2080	104.0	2.0	2090	104.5	2.0	2100	105.0
Molybdenum									
Nickel	anr								
Potassium	40	40200	100.5	40	39800	99.5	40	39900	99.8
Selenium	anr								
Silver	anr								
Sodium	40	38200	95.5	40	38300	95.8	40	38400	96.0
Thallium									
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2774 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2.0	1990	99.5	2.0	2020	101.0	2.0	2090	104.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	41900	104.8	40	42600	106.5	40	43600	109.0
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41000	102.5	40	41400	103.5	40	43000	107.5
Manganese	2.0	2050	102.5	2.0	2070	103.5	2.0	2120	106.0
Molybdenum									
Nickel	anr								
Potassium	40	39800	99.5	40	39300	98.3	40	38000	95.0
Selenium	anr								
Silver	anr								
Sodium	40	37300	93.3	40	36700	91.8	40	36600	91.5
Thallium									
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2774 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40			
Antimony	0.010		anr	
Arsenic	0.020		18.3	91.5
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		2060	103.0
Chromium	0.020		anr	
Cobalt	0.10			
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		9800	98.0
Manganese	0.030		30.2	100.7
Molybdenum	0.10			
Nickel	0.080		anr	
Potassium	10		9420	94.2
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		8210	82.1
Thallium	0.020			
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040		anr	

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2774 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			517000	103.4	502000	100.4
Antimony		1.0			-0.090		1080	108.0
Arsenic		1.0			2.1		1030	103.0
Barium		0.50			1.2		537	107.4
Beryllium		0.50			-0.90		522	104.4
Cadmium		1.0			0.22		914	91.4
Calcium	500	500			478000	95.6	459000	91.8
Chromium		0.50			2.9		516	103.2
Cobalt		0.50			0.68		514	102.8
Copper		0.50			-19		578	115.6
Iron	200	200			204000	102.0	195000	97.5
Lead		1.0			2.5		979	97.9
Magnesium	500	500			547000	109.4	525000	105.0
Manganese		0.50			-0.65		551	110.2
Molybdenum		1.0			-0.89		988	98.8
Nickel		1.0			-0.010		965	96.5
Potassium					645		3790	
Selenium		1.0			1.1		1050	105.0
Silver		1.0			-0.87		1060	106.0
Sodium					63.8		2500	
Thallium		1.0			-1.8		990	99.0
Tin		1.0			-7.6		992	99.2
Vanadium		0.50			5.3		512	102.4
Zinc		1.0			-1.6		927	92.7

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2775
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:08	MA2775-ICV1	1		
13:12	MA2775-ICB1	1		
13:15	MA2775-CRI1	1		
13:18	MA2775-ICSA1	1		
13:24	MA2775-ICSA2	1		
13:25	MA2775-ICSAB1	1		
13:29	MA2775-CCV1	1		
13:34	MA2775-CCB1	1		
13:38	MP4347-MB1	1		
13:42	MP4347-B1	1		
13:47	F12925-1	1		(sample used for QC only; not part of login F12878)
13:51	MP4347-S1	1		
13:54	MP4347-S2	1		
14:01	MP4347-D1	1		
14:05	MP4347-SD1	5		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:20	MA2775-CCV2	1		
14:25	MA2775-CCB2	1		
14:29	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:37	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:49	F12878-3	1		
14:53	F12878-4	1		
14:57	F12878-5	1		
15:01	F12878-6	1		
15:04	F12878-7	1		
15:08	MA2775-CCV3	1		
15:14	MA2775-CCB3	1		
15:17	F12878-8	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2775
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:21	F12878-9	1		
15:25	F12878-10	1		
15:29	F12878-11	1		
15:33	F12878-12	1		
15:37	F12878-13	1		
15:41	MP4348-MB1	1		
15:45	MP4348-B1	1		
15:50	F12924-1	1		(sample used for QC only; not part of login F12878)
15:54	MP4348-S1	1		
15:58	MA2775-CCV4	1		
16:03	MA2775-CCB4	1		
16:07	MP4348-S2	1		
16:13	MP4348-D1	1		
16:17	MP4348-SD1	5		
16:21	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:48	MA2775-CCV5	1		
16:53	MA2775-CCB5	1		
16:58	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:13	ZZZZZZ	1		
17:17	MP4347-MB1	1		
---------->	Last reportable sample/prep for job F12878			
17:21	MA2775-CCV6	1		
17:26	MA2775-CCB6	1		
---------->	Last reportable CCB for job F12878			

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2775 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	1.5	<10	2.0	<10	0.16	<10	2.7	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	-1.6	<1000	14.7	<1000	5.0	<1000	5.0	<1000
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	6.7	<5000	15.0	<5000	-1.6	<5000	9.4	<5000
Manganese	15	.16	0.0	<15	-0.53	<15	-0.58	<15	-0.39	<15
Molybdenum	50	.75	anr							
Nickel	40	1.08	anr							
Potassium	5000	13.9	549	<5000<	649	<5000<	573	<5000<	550	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	435	<5000	73.3	<5000	8.0	<5000	291	<5000
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2775 Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr					
Antimony	0.0050	1.52	anr					
Arsenic	0.010	2.83	2.5	<10	0.79	<10	1.4	<10
Barium	200	.49	anr					
Beryllium	5.0	.26	anr					
Cadmium	5.0	.26	anr					
Calcium	1000	3.82	5.9	<1000	2.1	<1000	1.2	<1000
Chromium	10	.43	anr					
Cobalt	50	.5	anr					
Copper	25	.44	anr					
Iron	300	7.11	anr					
Lead	0.0050	1.22	anr					
Magnesium	5000	9.88	6.4	<5000	7.4	<5000	0.90	<5000
Manganese	15	.16	-0.34	<15	-0.17	<15	-0.31	<15
Molybdenum	50	.75	anr					
Nickel	40	1.08	anr					
Potassium	5000	13.9	678	<5000<	642	<5000<	623	<5000<
Selenium	0.010	1.98	anr					
Silver	10	.55	anr					
Sodium	5000	145	444	<5000	476	<5000	139	<5000
Thallium	0.010	1.49	anr					
Tin	50	2.18						
Vanadium	50	.47	anr					
Zinc	20	.59	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2020	101.0	2.0	2010	100.5	2.0	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42200	105.5	40	41900	104.8	40	42600	106.5
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41400	103.5	40	41000	102.5	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Molybdenum	anr								
Nickel	anr								
Potassium	40	39900	99.8	40	39800	99.5	40	39900	99.8
Selenium	anr								
Silver	anr								
Sodium	40	38000	95.0	40	37100	92.8	40	37500	93.8
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2050	102.5	2.0	2050	102.5	2.0	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42900	107.3	40	42800	107.0	40	43400	108.5
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	42300	105.8	40	42200	105.5	40	42800	107.0
Manganese	2.0	2100	105.0	2.0	2100	105.0	2.0	2110	105.5
Molybdenum	anr								
Nickel	anr								
Potassium	40	40000	100.0	40	40200	100.5	40	40100	100.3
Selenium	anr								
Silver	anr								
Sodium	40	37600	94.0	40	37700	94.3	40	38500	96.3
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2.0	2090	104.5
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	40	43700	109.3
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	40	43200	108.0
Manganese	2.0	2130	106.5
Molybdenum	anr		
Nickel	anr		
Potassium	40	40400	101.0
Selenium	anr		
Silver	anr		
Sodium	40	39000	97.5
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2775 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		anr	
Antimony	0.010		anr	
Arsenic	0.020		23.2	116.0
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		2020	101.0
Chromium	0.020		anr	
Cobalt	0.10		anr	
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		9720	97.2
Manganese	0.030		30.1	100.3
Molybdenum	0.10		anr	
Nickel	0.080		anr	
Potassium	10		9430	94.3
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		8620	86.2
Thallium	0.020		anr	
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2775 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			511000	102.2	495000	99.0
Antimony		1.0			-0.040		1050	105.0
Arsenic		1.0			3.7		1000	100.0
Barium		0.50			1.6		528	105.6
Beryllium		0.50			-0.48		520	104.0
Cadmium		1.0			-3.9		905	90.5
Calcium	500	500			474000	94.8	456000	91.2
Chromium		0.50			4.1		511	102.2
Cobalt		0.50			1.6		505	101.0
Copper		0.50			-18		558	111.6
Iron	200	200			200000	100.0	192000	96.0
Lead		1.0			1.7		967	96.7
Magnesium	500	500			529000	105.8	509000	101.8
Manganese		0.50			-0.53		544	108.8
Molybdenum		1.0			-0.67		978	97.8
Nickel		1.0			1.3		953	95.3
Potassium					593		3480	
Selenium		1.0			1.2		1020	102.0
Silver		1.0			0.42		1050	105.0
Sodium					773		2230	
Thallium		1.0			-0.010		987	98.7
Tin		1.0			-5.2		968	96.8
Vanadium		0.50			11.3		509	101.8
Zinc		1.0			-0.63		918	91.8

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2780
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:36	MA2780-ICV1	1		
10:38	MA2780-ICB1	1		
10:41	MA2780-CRI1	1		
10:48	MA2780-ICSA1	1		
10:52	MA2780-ICSA2	1		
10:53	MA2780-ICSAB1	1		
10:57	MA2780-CCV1	1		
11:02	MA2780-CCB1	1		
11:06	MP4355-MB1	1		
11:10	MP4355-B1	1		
11:15	F12939-5	1		(sample used for QC only; not part of login F12878)
11:19	MP4355-S1	1		
11:24	MP4355-D1	1		
11:28	MP4355-SD1	5		
11:32	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	ZZZZZZ	1		
11:44	ZZZZZZ	1		
11:48	MA2780-CCV2	1		
11:53	MA2780-CCB2	1		
11:57	ZZZZZZ	1		
12:01	F12878-11	1		

----------> Last reportable sample/prep for job F12878

12:04	MP4354-S2	1		
12:08	MA2780-CCV3	1		
12:13	MA2780-CCB3	1		

----------> Last reportable CCB for job F12878
Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2780 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	1.2	<10	-1.8	<10	-1.1	<10	-0.51	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	anr							
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	anr							
Manganese	15	.16	anr							
Molybdenum	50	.75	anr							
Nickel	40	1.08	anr							
Potassium	5000	13.9	anr							
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	anr							
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2780 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2010	100.5	2.0	2020	101.0	2.0	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2780 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2.0	1990	99.5
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2780 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		anr	
Antimony	0.010		anr	
Arsenic	0.020		17.9	89.5
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		anr	
Chromium	0.020		anr	
Cobalt	0.10		anr	
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		anr	
Manganese	0.030		anr	
Molybdenum	0.10		anr	
Nickel	0.080		anr	
Potassium	10		anr	
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		anr	
Thallium	0.020		anr	
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2780 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			515000	103.0	497000	99.4
Antimony		1.0			0.040		1060	106.0
Arsenic		1.0			1.0		1010	101.0
Barium		0.50			1.2		534	106.8
Beryllium		0.50			-1.3		515	103.0
Cadmium		1.0			0.16		902	90.2
Calcium	500	500			470000	94.0	452000	90.4
Chromium		0.50			3.1		511	102.2
Cobalt		0.50			0.46		508	101.6
Copper		0.50			-17		581	116.2
Iron	200	200			201000	100.5	191000	95.5
Lead		1.0			-0.030		964	96.4
Magnesium	500	500			532000	106.4	512000	102.4
Manganese		0.50			-0.67		544	108.8
Molybdenum		1.0			-1.9		976	97.6
Nickel		1.0			0.13		955	95.5
Potassium					662		3810	
Selenium		1.0			6.5		1030	103.0
Silver		1.0			-0.43		1050	105.0
Sodium					74.7		2430	
Thallium		1.0			-1.5		970	97.0
Tin		1.0			-2.0		983	98.3
Vanadium		0.50			2.6		503	100.6
Zinc		1.0			-3.2		907	90.7

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/17/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56		
Antimony	5.0	1.52	anr	
Arsenic	10	2.83	1.5	<10
Barium	200	.49	anr	
Beryllium	5.0	.26	anr	
Cadmium	5.0	.26		
Calcium	1000	3.82	13.1	<1000
Chromium	10	.43	anr	
Cobalt	50	.5		
Copper	25	.44	anr	
Iron	300	7.11	anr	
Lead	5.0	1.22	anr	
Magnesium	5000	9.88	2.6	<5000
Manganese	15	.16	-1.6	<15
Molybdenum	50	.75		
Nickel	40	1.08	anr	
Potassium	5000	13.9	619	<5000
Selenium	10	1.98		
Silver	10	.55		
Sodium	5000	145	163	<5000
Thallium	10	1.49		
Tin	50	2.18		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				04/17/02					04/17/02	
Metal	F12913-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12913-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum										
Antimony	anr									
Arsenic	44.8	3930	4000	97.1	75-120	44.8	3930	4000	97.1	75-120
Barium	anr									
Beryllium	anr									
Cadmium										
Calcium	60200	85900	25000	102.8	37-150	60200	86000	25000	103.2	37-150
Chromium	anr									
Cobalt										
Copper	anr									
Iron	anr									
Lead	anr									
Magnesium	1520	26600	25000	100.3	73-127	1520	26600	25000	100.3	73-127
Manganese	1.8	1040	1000	103.8	74-122	1.8	1040	1000	103.8	74-122
Molybdenum										
Nickel	anr									
Potassium	967	27100	25000	104.5	61-122	967	27400	25000	105.7	61-122
Selenium										
Silver										
Sodium	4280	29100	25000	99.3	56-130	4280	29400	25000	100.5	56-130
Thallium										
Tin										
Vanadium	anr									
Zinc	anr									

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/17/02

Metal	F12913-1 Original	DUP	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	44.8	47.2	5.2	0-29
Barium	anr			
Beryllium	anr			
Cadmium				
Calcium	60200	61300	1.8	0-20
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	1520	1540	1.3	0-20
Manganese	1.8	1.9	5.4	0-30
Molybdenum				
Nickel	anr			
Potassium	967	979	1.2	0-20
Selenium				
Silver				
Sodium	4280	4210	1.6	0-20
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/17/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	3870	4000	96.8	80-120
Barium	anr			
Beryllium	anr			
Cadmium				
Calcium	25600	25000	102.4	80-120
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	24700	25000	98.8	80-120
Manganese	1040	1000	104.0	80-120
Molybdenum				
Nickel	anr			
Potassium	24900	25000	99.6	80-120
Selenium				
Silver				
Sodium	22900	25000	91.6	80-120
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/17/02

Metal	F12913-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	44.8	46.3	3.4	0-10
Barium	anr			
Beryllium	anr			
Cadmium				
Calcium	60200	60100	0.1	0-10
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	1520	1490	1.8	0-10
Manganese	1.79	0.00	100.0(a)	0-10
Molybdenum				
Nickel	anr			
Potassium	967	3540	265.9*(b	0-10
Selenium				
Silver				
Sodium	4280	4480	4.6	0-10
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	anr	
Antimony	5.0	1.52	anr	
Arsenic	10	2.83	1.7	<10
Barium	200	.49	anr	
Beryllium	5.0	.26	anr	
Cadmium	5.0	.26	anr	
Calcium	1000	3.82	1.1	<1000
Chromium	10	.43	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.11	anr	
Lead	5.0	1.22	anr	
Magnesium	5000	9.88	-1.9	<5000
Manganese	15	.16	-1.8	<15
Molybdenum	50	.75	anr	
Nickel	40	1.08	anr	
Potassium	5000	13.9	526	<5000
Selenium	10	1.98	anr	
Silver	10	.55	anr	
Sodium	5000	145	268	<5000
Thallium	10	1.49	anr	
Tin	50	2.18		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				04/18/02					04/18/02	
Metal	F12925-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12925-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr									
Antimony	anr									
Arsenic	0.0	4080	4000	102.0	75-120	0.0	4010	4000	100.3	75-120
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium	314000	341000	25000	108.0	37-150	314000	335000	25000	84.0	37-150
Chromium	anr									
Cobalt	anr									
Copper	anr									
Iron	anr									
Lead	anr									
Magnesium	9870	34600	25000	98.9	73-127	9870	34100	25000	96.9	73-127
Manganese	25.8	1060	1000	103.4	74-122	25.8	1040	1000	101.4	74-122
Molybdenum										
Nickel	anr									
Potassium	66800	94700	25000	111.6	61-122	66800	92900	25000	104.4	61-122
Selenium	anr									
Silver	anr									
Sodium	133000	169000	25000	144.0(a)	56-130	133000	165000	25000	128.0	56-130
Thallium	anr									
Tin										
Vanadium	anr									
Zinc	anr									

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/18/02

Metal	F12925-1 Original	DUP	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.0	4.9	200.0(a)	0-29
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	314000	317000	1.0	0-20
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	9870	10100	2.3	0-20
Manganese	25.8	26.2	1.5	0-30
Molybdenum	anr			
Nickel	anr			
Potassium	66800	67900	1.6	0-20
Selenium	anr			
Silver	anr			
Sodium	133000	137000	3.0	0-20
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	3990	4000	99.8	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	25900	25000	103.6	80-120
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	25000	25000	100.0	80-120
Manganese	1060	1000	106.0	80-120
Molybdenum				
Nickel	anr			
Potassium	25100	25000	100.4	80-120
Selenium	anr			
Silver	anr			
Sodium	23500	25000	94.0	80-120
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	F12925-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	314000	330000	5.2	0-10
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	9870	10300	4.0	0-10
Manganese	25.8	19.4	24.6*(a)	0-10
Molybdenum	anr			
Nickel	anr			
Potassium	66800	63900	4.2	0-10
Selenium	anr			
Silver	anr			
Sodium	133000	116000	12.7*(a)	0-10
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

General Chemistry

QC Data Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits
Chloride	GP3112/GN9278	20	<20	mg/l	96.9	90-110%
Nitrogen, Nitrate	GP3112/GN9278	0.10	<0.10	mg/l	95.0	90-110%
Nitrogen, Nitrite	GP3112/GN9278	0.10	<0.10	mg/l	95.0	90-110%
Sulfate	GP3112/GN9278	20	<20	mg/l	93.7	90-110%

Associated Samples:
Batch GP3112: F12878-1, F12878-10, F12878-11, F12878-12, F12878-13, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP3112/GN9278	F12878-1	mg/l	<10	<10	0.0	0-20%
Nitrogen, Nitrate	GP3112/GN9278	F12878-1	mg/l	<0.050	<0.050	0.0	0-20%
Nitrogen, Nitrite	GP3112/GN9278	F12878-1	mg/l	<0.050	<0.050	0.0	0-20%
Sulfate	GP3112/GN9278	F12878-1	mg/l	<10	<10	0.0	0-20%

Associated Samples:
Batch GP3112: F12878-1, F12878-10, F12878-11, F12878-12, F12878-13, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP3112/GN9278	F12878-1	mg/l	<10	100	98.4	98.4	80-120%
Chloride	GP3112/GN9278	F12878-1	mg/l	<10	100	98.5	98.5	80-120%
Nitrogen, Nitrate	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.93	93.0	80-120%
Nitrogen, Nitrate	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.95	95.0	80-120%
Nitrogen, Nitrite	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.95	95.0	80-120%
Nitrogen, Nitrite	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.92	92.0	80-120%
Sulfate	GP3112/GN9278	F12878-1	mg/l	<10	100	93.2	93.2	80-120%
Sulfate	GP3112/GN9278	F12878-1	mg/l	<10	100	93.4	93.4	80-120%

Associated Samples:
Batch GP3112: F12878-1, F12878-10, F12878-11, F12878-12, F12878-13, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: 02041201.IC Date Analyzed: 04/12/02 Methods: EPA 300/SW846 9056
Analyst: LL Run ID: GN9278
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:39	GN9278-ICV1	1		
11:56	GN9278-ICB1	1		
12:14	GN9278-CCV1	1		
12:32	GN9278-CCB1	1		
12:49	GP3112-MB1	1		
13:07	GP3112-B1	1		
13:24	ZZZZZZ	1		
13:42	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:17	GP3112-S1	1		
14:34	GP3112-S2	1		
14:56	GP3112-D1	1		
15:14	GN9278-CCV2	1		
15:31	GN9278-CCB2	1		
15:49	F12878-1	1		
16:06	F12878-2	1		
16:23	F12878-3	1		
16:40	F12878-5	1		
16:57	F12878-6	1		
17:14	F12878-7	1		
17:32	F12878-8	1		
17:49	F12878-9	1		
18:07	GN9278-CCV3	1		
18:24	GN9278-CCB3	1		
18:42	F12878-10	1		
18:59	F12878-11	1		
19:17	F12878-12	1		
19:34	F12878-13	1		
---------->	Last reportable sample/prep for job F12878			
19:52	ZZZZZZ	1		
20:10	ZZZZZZ	1		
20:27	ZZZZZZ	1		
20:45	ZZZZZZ	1		
21:02	GN9278-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: 02041201.IC Date Analyzed: 04/12/02 Methods: EPA 300/SW846 9056
Analyst: LL Run ID: GN9278
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:20	GN9278-CCB4	1		

----------> Last reportable CCB for job F12878
Refer to raw data for calibration curve and standards.

Technical Report for

Tetra-Tech, NUS

CSS Panama City-N2834(CTO-0184)

WORK RELEASE#PC184-2

Accutest Job Number: F12878R

Report to:

Total number of pages in report:

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Tetra-Tech, NUS

Job No: F12878R

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC184-2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12878-1R	04/11/02	12:15	JB	04/12/02	AQ	Ground Water	13GLM03S01
F12878-2R	04/11/02	14:50	JB	04/12/02	AQ	Ground Water	13GLM010S01
F12878-3R	04/11/02	15:20	JB	04/12/02	AQ	Ground Water	13GLM010I01
F12878-4R	04/11/02	12:10	JB	04/12/02	AQ	Ground Water	13RL041102
F12878-5R	04/11/02	10:30	JB	04/12/02	AQ	Ground Water	13GLM09I01
F12878-6R	04/11/02	09:45	JB	04/12/02	AQ	Ground Water	13GLM09S01
F12878-7R	04/11/02	12:15	JB	04/12/02	AQ	Ground Water	13GLM01S01D
F12878-8R	04/11/02	08:55	JB	04/12/02	AQ	Ground Water	13GLM16I01
F12878-9R	04/11/02	08:55	JB	04/12/02	AQ	Ground Water	13GLM16I01D
F12878-10R	04/11/02	09:50	JB	04/12/02	AQ	Ground Water	13GLM16D01
F12878-11R	04/11/02	11:35	JB	04/12/02	AQ	Ground Water	13GLM17S01
F12878-12R	04/11/02	14:55	JB	04/12/02	AQ	Ground Water	13GLM17I01
F12878-13R	04/11/02	12:40	JB	04/12/02	AQ	Ground Water	13GLM17D01

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010188.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	4.5	1.0	ug/l	
91-57-6	2-Methylnaphthalene	2.9	1.0	ug/l	
91-20-3	Naphthalene	11.5	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010189.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.7	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.96	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	16.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	18.8	1.0	ug/l	
91-20-3	Naphthalene	21.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010190.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.1	ug/l	
208-96-8	Acenaphthylene	ND	1.1	ug/l	
120-12-7	Anthracene	ND	1.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	0.22	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	1.1	ug/l	
86-73-7	Fluorene	ND	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
90-12-0	1-Methylnaphthalene	0.56	1.1	ug/l	J
91-57-6	2-Methylnaphthalene	0.68	1.1	ug/l	J
91-20-3	Naphthalene	0.77	1.1	ug/l	J
85-01-8	Phenanthrene	ND	1.1	ug/l	
129-00-0	Pyrene	ND	1.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010191.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010192.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010193.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.57	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	2.0	1.0	ug/l	
91-20-3	Naphthalene	1.6	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010194.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	2.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	1.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	15.9	1.0	ug/l	
91-57-6	2-Methylnaphthalene	18.8	1.0	ug/l	
91-20-3	Naphthalene	20.5	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010195.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010196.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010197.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010198.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.52	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010199.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.79	1.0	ug/l	J
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.84	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010200.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5231-MB	W010187.D	1	05/24/02	ME	04/18/02	OP5231	SW556

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F12878-1R, F12878-2R, F12878-3R, F12878-4R, F12878-5R, F12878-6R, F12878-7R, F12878-8R, F12878-9R, F12878-10R, F12878-11R, F12878-12R, F12878-13R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

Instrument Performance Check (DFTPP)

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW556-DFTPP **Injection Date:** 05/24/02
Lab File ID: W010185.D **Injection Time:** 15:01
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	95972	41.3		Pass
68	Less than 2.0% of mass 69	252	0.11	(0.32) [a]	Pass
69	Mass 69 relative abundance	78760	33.9		Pass
70	Less than 2.0% of mass 69	196	0.08	(0.25) [a]	Pass
127	25.0 - 75.0% of mass 198	92035	39.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	232427	100.0		Pass
199	5.0 - 9.0% of mass 198	15388	6.6		Pass
275	10.0 - 30.0% of mass 198	54579	23.5		Pass
365	0.75 - 100.0% of mass 198	5384	2.3		Pass
441	Present, but less than mass 443	28026	12.1	(80.5) [b]	Pass
442	40.0 - 100.0% of mass 198	185064	79.6		Pass
443	15.0 - 24.0% of mass 442	34830	15.0	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW556-CC553	W010186.D	05/24/02	15:21	00:20	Continuing cal 4
OP5231-MB	W010187.D	05/24/02	15:51	00:50	Method Blank
F12878-1R	W010188.D	05/24/02	16:21	01:20	13GLM03S01
F12878-2R	W010189.D	05/24/02	16:51	01:50	13GLM010S01
F12878-3R	W010190.D	05/24/02	17:21	02:20	13GLM010I01
F12878-4R	W010191.D	05/24/02	17:50	02:49	13RL041102
F12878-5R	W010192.D	05/24/02	18:20	03:19	13GLM09I01
F12878-6R	W010193.D	05/24/02	18:50	03:49	13GLM09S01
F12878-7R	W010194.D	05/24/02	19:19	04:18	13GLM01S01D
F12878-8R	W010195.D	05/24/02	19:49	04:48	13GLM16I01
F12878-9R	W010196.D	05/24/02	20:18	05:17	13GLM16I01D
F12878-10R	W010197.D	05/24/02	20:47	05:46	13GLM16D01
F12878-11R	W010198.D	05/24/02	21:17	06:16	13GLM17S01
F12878-12R	W010199.D	05/24/02	21:46	06:45	13GLM17I01
F12878-13R	W010200.D	05/24/02	22:16	07:15	13GLM17D01
ZZZZZZ	W010201.D	05/24/02	22:45	07:44	(unrelated sample)
ZZZZZZ	W010202.D	05/24/02	23:15	08:14	(unrelated sample)
ZZZZZZ	W010203.D	05/24/02	23:44	08:43	(unrelated sample)
ZZZZZZ	W010204.D	05/25/02	00:14	09:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW556-DFTPP
Lab File ID: W010185.D
Instrument ID: GCMSW
Injection Date: 05/24/02
Injection Time: 15:01

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W010205.D	05/25/02	00:43	09:42	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW553-DFTPP **Injection Date:** 05/22/02
Lab File ID: W010121.D **Injection Time:** 08:58
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	68523	42.8		Pass
68	Less than 2.0% of mass 69	609	0.38	(1.1) [a]	Pass
69	Mass 69 relative abundance	55347	34.5		Pass
70	Less than 2.0% of mass 69	353	0.22	(0.64) [a]	Pass
127	25.0 - 75.0% of mass 198	64323	40.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	160203	100.0		Pass
199	5.0 - 9.0% of mass 198	10776	6.7		Pass
275	10.0 - 30.0% of mass 198	37363	23.3		Pass
365	0.75 - 100.0% of mass 198	3685	2.3		Pass
441	Present, but less than mass 443	19318	12.1	(77.3) [b]	Pass
442	40.0 - 100.0% of mass 198	128296	80.1		Pass
443	15.0 - 24.0% of mass 442	24999	15.6	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW553-ICC553	W010122.D	05/22/02	09:18	00:20	Initial cal 4
SW553-IC553	W010123.D	05/22/02	09:47	00:49	Initial cal 1
SW553-IC553	W010124.D	05/22/02	10:17	01:19	Initial cal 2
SW553-IC553	W010125.D	05/22/02	10:47	01:49	Initial cal 3
SW553-IC553	W010126.D	05/22/02	11:16	02:18	Initial cal 5
SW553-IC553	W010127.D	05/22/02	11:46	02:48	Initial cal 6
SW553-IC553	W010128.D	05/22/02	12:16	03:18	Initial cal 7
OP5156-MB	W010130.D	05/22/02	13:15	04:17	Method Blank
ZZZZZZ	W010131.D	05/22/02	13:44	04:46	(unrelated sample)
OP5176-BS	W010132.D	05/22/02	14:14	05:16	Blank Spike
OP5176-MB	W010133.D	05/22/02	14:44	05:46	Method Blank
ZZZZZZ	W010134.D	05/22/02	15:13	06:15	(unrelated sample)
F13228-3	W010135.D	05/22/02	15:43	06:45	(used for QC only; not part of job F12878R)
OP5176-MS	W010136.D	05/22/02	16:12	07:14	Matrix Spike
OP5176-MSD	W010137.D	05/22/02	16:42	07:44	Matrix Spike Duplicate
ZZZZZZ	W010138.D	05/22/02	17:12	08:14	(unrelated sample)
ZZZZZZ	W010139.D	05/22/02	17:41	08:43	(unrelated sample)
ZZZZZZ	W010140.D	05/22/02	18:11	09:13	(unrelated sample)
ZZZZZZ	W010141.D	05/22/02	18:41	09:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW553-DFTPP
Lab File ID: W010121.D
Instrument ID: GCMSW
Injection Date: 05/22/02
Injection Time: 08:58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W010142.D	05/22/02	19:11	10:13	(unrelated sample)
ZZZZZZ	W010143.D	05/22/02	19:40	10:42	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std: SW556-CC553 **Injection Date:** 05/24/02
Lab File ID: W010186.D **Injection Time:** 15:21
Instrument ID: GCMSW **Method:** SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	267529	6.25	134988	8.58	204032	11.11	115210	16.03	69524	18.53
Upper Limit [a]	535058	6.75	269976	9.08	408064	11.61	230420	16.53	139048	19.03
Lower Limit [b]	133765	5.75	67494	8.08	102016	10.61	57605	15.53	34762	18.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP5231-MB	250896	6.25	122772	8.58	186686	11.11	99049	16.03	60664	18.53
F12878-1R	165177	6.26	94385	8.59	118534	11.12	74391	16.04	52495	18.54
F12878-2R	189121	6.26	95540	8.59	134865	11.12	79775	16.04	55066	18.54
F12878-3R	221858	6.26	111732	8.59	171158	11.11	100976	16.03	63655	18.53
F12878-4R	233513	6.26	116804	8.58	178687	11.11	103220	16.03	65556	18.53
F12878-5R	229762	6.26	110367	8.58	168875	11.11	97214	16.03	63803	18.53
F12878-6R	215150	6.26	108731	8.58	163502	11.11	94910	16.04	61631	18.53
F12878-7R	209561	6.26	104979	8.59	148940	11.12	83367	16.05	54614	18.54
F12878-8R	226555	6.26	112729	8.59	173659	11.11	100788	16.03	63710	18.53
F12878-9R	235295	6.26	117696	8.59	175611	11.11	102744	16.04	64263	18.53
F12878-10R	228319	6.26	110497	8.58	167751	11.11	97641	16.03	62788	18.53
F12878-11R	243807	6.26	122448	8.59	181656	11.11	103935	16.03	62738	18.53
F12878-12R	228827	6.26	113019	8.59	172536	11.11	99168	16.03	62028	18.53
F12878-13R	226242	6.26	114082	8.59	172751	11.11	99698	16.03	61519	18.53
ZZZZZZ	211723	6.26	100493	8.59	155587	11.11	90819	16.03	59664	18.53
ZZZZZZ	239206	6.26	114637	8.59	170860	11.11	96848	16.04	61188	18.53
ZZZZZZ	231811	6.26	111229	8.59	166210	11.11	90436	16.04	55332	18.53
ZZZZZZ	234514	6.26	113285	8.58	169680	11.11	96899	16.03	60290	18.53
ZZZZZZ	222908	6.26	110661	8.58	169288	11.11	97416	16.03	60977	18.53

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Initial Calibration Summary

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: SW553-ICC553
Lab FileID: W010122.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration

Calibration Files
L1 =W010123.D L2 =W010124.D L3 =W010125.D
L4 =W010122.D L5 =W010126.D L6 =W010127.D L7 =W010128.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.363	0.401	0.399	0.432	0.413	0.412	0.408	0.404	5.23
3)P N-nitroso-di-n-pr		0.235	0.229	0.236	0.218	0.202	0.199	0.220	7.35
4) Naphthalene	1.107	1.199	1.156	1.191	1.136	1.121	1.101	1.145	3.42
5) 2-Methylnaphthale	0.690	0.741	0.736	0.762	0.732	0.730	0.691	0.726	3.63
6) 1-Methylnaphthale	0.617	0.675	0.658	0.685	0.651	0.649	0.617	0.650	4.04
7) I Acenaphthene-d10	----------ISTD----------								
8)P Hexachlorocyclope		0.299	0.357	0.392	0.416	0.434	0.437	0.389	13.66
9)S 2-Fluorobiphenyl	1.620	1.784	1.809	1.821	1.821	1.837	1.799	1.784	4.18
10) 2-Chloronaphthale	1.386	1.587	1.530	1.562	1.543	1.530	1.530	1.524	4.23
11) Acenaphthylene	1.794	2.029	2.011	2.087	2.027	2.056	2.004	2.001	4.78
12)C Acenaphthene	1.175	1.327	1.329	1.342	1.300	1.316	1.256	1.292	4.53
13)P 2,4-Dinitrophenol		0.101	0.153	0.188	0.228	0.252	0.237	0.193	29.82
14)P 4-Nitrophenol		0.246	0.264	0.273	0.268	0.290	0.256	0.266	5.67
15) Fluorene	1.269	1.422	1.442	1.466	1.444	1.484	1.398	1.418	5.04
16) I Phenanthrene-d10	----------ISTD----------								
17) Phenanthrene	1.226	1.342	1.320	1.373	1.321	1.319	1.301	1.314	3.44
18) Anthracene	1.123	1.293	1.297	1.344	1.321	1.293	1.252	1.275	5.71
19)C Fluoranthene	1.092	1.282	1.323	1.373	1.345	1.380	1.315	1.301	7.57
20) I Chrysene-d12	----------ISTD----------								
21) Pyrene	2.019	2.179	2.215	2.381	2.213	2.159	2.188	2.193	4.85
22)S Terphenyl-d14	0.858	0.914	0.935	0.998	0.975	0.966	0.972	0.945	5.03
23) Benzo[a]anthracen	1.410	1.466	1.419	1.527	1.510	1.586	1.545	1.495	4.40
24) Chrysene	1.412	1.523	1.533	1.579	1.563	1.581	1.557	1.536	3.82
25) I Perylene-d12	----------ISTD----------								
26) Benzo[b]fluoranth	1.637	1.839	1.710	1.823	1.974	2.055	2.063	1.871	8.87
27) Benzo[k]fluoranth	1.706	1.910	2.020	2.115	2.277	2.276	2.353	2.094	11.10
28)C Benzo[a]pyrene	1.409	1.449	1.466	1.607	1.685	1.776	1.731	1.589	9.33
29) Indeno[1,2,3-cd]p	1.048	1.031	1.083	1.220	1.124	1.226	1.226	1.137	7.63
30) Dibenz[a,h]anthra	0.968	0.981	1.069	1.213	1.223	1.353	1.360	1.167	14.03
31) Benzo[g,h,i]peryl	1.305	1.402	1.442	1.517	1.528	1.601	1.604	1.485	7.35

Average % RSD = 7.3

(#) = Out of Range

SIM_PAH.M Thu May 23 13:13:21 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: SW556-CC553
Lab FileID: W010186.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052402A\W010186.D Vial: 2
Acq On : 24 May 2002 3:21 pm Operator: marke
Sample : cc553-4 Inst : MSBNA01
Misc : op5231,sw556,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	109	-0.02
2	S	Nitrobenzene-d5	0.404	0.423	-4.7	106	-0.02
3	P	N-nitroso-di-n-propylamine	0.220	0.240	-9.1	110	-0.01
4		Naphthalene	1.145	1.181	-3.1	108	-0.01
5		2-Methylnaphthalene	0.726	0.784	-8.0	112	-0.02
6		1-Methylnaphthalene	0.650	0.694	-6.8	110	-0.02
7	I	Acenaphthene-d10	1.000	1.000	0.0	113	-0.02
8	P	Hexachlorocyclopentadiene	0.389	0.370	4.9	107	-0.02
9	S	2-Fluorobiphenyl	1.784	1.826	-2.4	114	-0.01
10		2-Chloronaphthalene	1.524	1.522	0.1	110	-0.02
11		Acenaphthylene	2.001	2.095	-4.7	114	-0.01
12	C	Acenaphthene	1.292	1.324	-2.5	112	-0.01
13	P	2,4-Dinitrophenol	0.193	0.227	-17.6	136	-0.02
14	P	4-Nitrophenol	0.266	0.275	-3.4	114	-0.03
15		Fluorene	1.418	1.518	-7.1	117	-0.01
16	I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.01
17		Phenanthrene	1.314	1.332	-1.4	115	-0.02
18		Anthracene	1.275	1.338	-4.9	118	-0.02
19	C	Fluoranthene	1.301	1.345	-3.4	116	-0.02
20	I	Chrysene-d12	1.000	1.000	0.0	115	-0.02
21		Pyrene	2.193	2.389	-8.9	115	-0.02
22	S	Terphenyl-d14	0.945	1.015	-7.4	117	-0.02
23		Benzo[a]anthracene	1.495	1.555	-4.0	117	-0.02
24		Chrysene	1.536	1.566	-2.0	114	-0.02
25	I	Perylene-d12	1.000	1.000	0.0	108	-0.02
26		Benzo[b]fluoranthene	1.871	2.008	-7.3	119	-0.02
27		Benzo[k]fluoranthene	2.094	2.156	-3.0	110	-0.02
28	C	Benzo[a]pyrene	1.589	1.695	-6.7	114	-0.02
29		Indeno[1,2,3-cd]pyrene	1.137	1.425	-25.3#	126	-0.02
30		Dibenz[a,h]anthracene	1.167	1.389	-19.0	123	-0.02
31		Benzo[g,h,i]perylene	1.485	1.594	-7.3	113	-0.01

Average % D = 6.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W010122.D SIM_PAH.M Tue May 28 16:57:14 2002 MSBNA01

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOA	TCLSVOC	Metals	Dissolved Gases	TOC	Cl, SO4, NO2, NO3	LAB USE ONLY
1)	13GLM03S01	4-11-02	1215	JB	GW	11	X		X		X	3	2	1	3	1	1	
2)	13GLM010S01		1450			11	X		X		X	3	2	1	3	1	1	
3)	13GLM010I01		1520			11	X		X		X	3	2	1	3	1	1	
4)	13RL041102		1210			6	X		X		X	3	2	1	Ø	Ø	Ø	
5)	13GLM09I01		1030			11	X		X		X	3	2	1	3	1	1	
6)	13GLM09S01		0945			11	X		X		X	3	2	1	3	1	1	
7)	missing ASBD																	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Airbill # 8311-5252-8681

1/2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4/11/02 1700	1.	2.		2. [illegible] 04/12/02-0930
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 1.8 C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12879
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC 1
PROJECT NO.: N12834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	/	TCL VOC's (8260B)	TCL SVOC's/PAH's (8270C)	SELECT METALS	ANIONS (NO2, NO3, SO4)	TOC	Dissolved Gases	LAB USE ONLY
8)	13GLM16I01	4/11/02	08:55	TA	GW	11	7		1		3		3	2	1	1	1	3	
9)	13GLM16I01D		08:55																
10)	13GLM16D01		09:50																
11)	13GLM17S01		11:35																
12)	13GLM17I01		14:55																
13)	13GLM17D01		12:40																

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

Airbill # 831152528681

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. TA	4/11/02 18:06	1.	2.		2. 04/12/02
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE [ ]	ON ICE [ ]

Southeast ACCUTEST Laboratories

10/02/02

Technical Report for

Tetra-Tech, NUS

CSS Panama City-N2834(CTO-0184)

WORK RELEASE#PC-1842

Accutest Job Number: F12899

Report to:

Tetra Tech, NUS Corporate

smithsi@ttnus.com

ATTN: Suzanne Smith

Total number of pages in report: 42

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Tetra-Tech, NUS

Job No: F12899

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC-1842

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12899-1	04/12/02	00:00	JB	04/13/02	AQ	Ground Water	13GLM02D01
F12899-2	04/12/02	09:30	JB	04/13/02	AQ	Ground Water	13GLM0201
F12899-3	04/12/02	08:30	JB	04/13/02	AQ	Ground Water	13GLM02S01
F12899-4	04/12/02	08:40	JB	04/13/02	AQ	Ground Water	13GLM18I01
F12899-5	04/12/02	09:45	JB	04/13/02	AQ	Ground Water	13GLM18D01

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015975.D	1	04/17/02	KW	n/a	n/a	VG500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.7	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009562.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009597.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	920 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
98-86-2	Acetophenone	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
1912-24-9	Atrazine	ND	5.5	ug/l	
100-52-7	Benzaldehyde	ND	28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
105-60-2	Caprolactam	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%	40%	20-125%
4165-62-2	Phenol-d5	17%	27%	10-125%
118-79-6	2,4,6-Tribromophenol	57%	74%	35-140%
4165-60-0	Nitrobenzene-d5	63%	74%	46-125%
321-60-8	2-Fluorobiphenyl	63%	71%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	77%	79%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008456.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	1.46	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	3530	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	2310 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	8.1 B	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1240 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	4370 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	21.8	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.6	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015955.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.7	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	2.9	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%	44%	20-125%
4165-62-2	Phenol-d5	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	84%	82%	35-140%
4165-60-0	Nitrobenzene-d5	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	77%	73%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008449.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	14400	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	1230 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	4.3 B	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1650 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2210 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	3.7	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015962.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	9.3	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009563.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009598.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	42%	20-125%
4165-62-2	Phenol-d5	35%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	85%	74%	35-140%
4165-60-0	Nitrobenzene-d5	86%	77%	46-125%
321-60-8	2-Fluorobiphenyl	80%	77%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%	85%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008458.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	14600	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	1230 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	1.5 B	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1520 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2940 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	3.0	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015963.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	5.7	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009564.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009599.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	2.7	5.0	ug/l	J
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%	54%	20-125%
4165-62-2	Phenol-d5	33%	37%	10-125%
118-79-6	2,4,6-Tribromophenol	86%	90%	35-140%
4165-60-0	Nitrobenzene-d5	85%	87%	46-125%
321-60-8	2-Fluorobiphenyl	79%	88%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%	87%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008483.D	1	04/25/02	RA	n/a	n/a	GXY122
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2.05	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	14.2	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	659 B	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	806 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	35.6	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1760 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2250 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015976.D	1	04/17/02	KW	n/a	n/a	VG500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	1.1	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	6.3	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	8.1	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.6	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.6	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.8	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009565.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		20-125%
4165-62-2	Phenol-d5	32%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	74%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

(a) QC outside of control limits. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008460.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	12.1	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	761 B	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	532 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	17.0	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1260 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2860 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > = IDL but < RL

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	< 20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Technical Report for

Tetra-Tech, NUS

CSS Panama City-N2834(CTO-0184)

WORK RELEASE#PC-1842

Accutest Job Number: F12899R

Report to:

Total number of pages in report:

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Tetra-Tech, NUS

Job No: F12899R

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC-1842

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F12899-1R	04/12/02	00:00	JB	04/13/02	AQ	Ground Water	13GLM02D01
F12899-2R	04/12/02	09:30	JB	04/13/02	AQ	Ground Water	13GLM0201
F12899-3R	04/12/02	08:30	JB	04/13/02	AQ	Ground Water	13GLM02S01
F12899-4R	04/12/02	08:40	JB	04/13/02	AQ	Ground Water	13GLM18I01
F12899-5R	04/12/02	09:45	JB	04/13/02	AQ	Ground Water	13GLM18D01

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010201.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.1	ug/l	
208-96-8	Acenaphthylene	ND	1.1	ug/l	
120-12-7	Anthracene	ND	1.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	0.22	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	1.1	ug/l	
86-73-7	Fluorene	ND	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	ug/l	
91-20-3	Naphthalene	ND	1.1	ug/l	
85-01-8	Phenanthrene	ND	1.1	ug/l	
129-00-0	Pyrene	ND	1.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010202.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010203.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010204.D	1	05/25/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	2.3	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010205.D	1	05/25/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5231-MB	W010187.D	1	05/24/02	ME	04/18/02	OP5231	SW556

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F12899-1R, F12899-2R, F12899-3R, F12899-4R, F12899-5R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW556-DFTPP **Injection Date:** 05/24/02
Lab File ID: W010185.D **Injection Time:** 15:01
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	95972	41.3		Pass
68	Less than 2.0% of mass 69	252	0.11	(0.32) [a]	Pass
69	Mass 69 relative abundance	78760	33.9		Pass
70	Less than 2.0% of mass 69	196	0.08	(0.25) [a]	Pass
127	25.0 - 75.0% of mass 198	92035	39.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	232427	100.0		Pass
199	5.0 - 9.0% of mass 198	15388	6.6		Pass
275	10.0 - 30.0% of mass 198	54579	23.5		Pass
365	0.75 - 100.0% of mass 198	5384	2.3		Pass
441	Present, but less than mass 443	28026	12.1	(80.5) [b]	Pass
442	40.0 - 100.0% of mass 198	185064	79.6		Pass
443	15.0 - 24.0% of mass 442	34830	15.0	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW556-CC553	W010186.D	05/24/02	15:21	00:20	Continuing cal 4
OP5231-MB	W010187.D	05/24/02	15:51	00:50	Method Blank
ZZZZZZ	W010188.D	05/24/02	16:21	01:20	(unrelated sample)
ZZZZZZ	W010189.D	05/24/02	16:51	01:50	(unrelated sample)
ZZZZZZ	W010190.D	05/24/02	17:21	02:20	(unrelated sample)
ZZZZZZ	W010191.D	05/24/02	17:50	02:49	(unrelated sample)
ZZZZZZ	W010192.D	05/24/02	18:20	03:19	(unrelated sample)
ZZZZZZ	W010193.D	05/24/02	18:50	03:49	(unrelated sample)
ZZZZZZ	W010194.D	05/24/02	19:19	04:18	(unrelated sample)
ZZZZZZ	W010195.D	05/24/02	19:49	04:48	(unrelated sample)
ZZZZZZ	W010196.D	05/24/02	20:18	05:17	(unrelated sample)
ZZZZZZ	W010197.D	05/24/02	20:47	05:46	(unrelated sample)
ZZZZZZ	W010198.D	05/24/02	21:17	06:16	(unrelated sample)
ZZZZZZ	W010199.D	05/24/02	21:46	06:45	(unrelated sample)
ZZZZZZ	W010200.D	05/24/02	22:16	07:15	(unrelated sample)
F12899-1R	W010201.D	05/24/02	22:45	07:44	13GLM02D01
F12899-2R	W010202.D	05/24/02	23:15	08:14	13GLM0201
F12899-3R	W010203.D	05/24/02	23:44	08:43	13GLM02S01
F12899-4R	W010204.D	05/25/02	00:14	09:13	13GLM18I01

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW556-DFTPP
Lab File ID: W010185.D
Instrument ID: GCMSW
Injection Date: 05/24/02
Injection Time: 15:01

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-5R	W010205.D	05/25/02	00:43	09:42	13GLM18D01

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW553-DFTPP **Injection Date:** 05/22/02
Lab File ID: W010121.D **Injection Time:** 08:58
Instrument ID: GCMSW

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	68523	42.8		Pass
68	Less than 2.0% of mass 69	609	0.38	(1.1) [a]	Pass
69	Mass 69 relative abundance	55347	34.5		Pass
70	Less than 2.0% of mass 69	353	0.22	(0.64) [a]	Pass
127	25.0 - 75.0% of mass 198	64323	40.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	160203	100.0		Pass
199	5.0 - 9.0% of mass 198	10776	6.7		Pass
275	10.0 - 30.0% of mass 198	37363	23.3		Pass
365	0.75 - 100.0% of mass 198	3685	2.3		Pass
441	Present, but less than mass 443	19318	12.1	(77.3) [b]	Pass
442	40.0 - 100.0% of mass 198	128296	80.1		Pass
443	15.0 - 24.0% of mass 442	24999	15.6	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW553-ICC553	W010122.D	05/22/02	09:18	00:20	Initial cal 4
SW553-IC553	W010123.D	05/22/02	09:47	00:49	Initial cal 1
SW553-IC553	W010124.D	05/22/02	10:17	01:19	Initial cal 2
SW553-IC553	W010125.D	05/22/02	10:47	01:49	Initial cal 3
SW553-IC553	W010126.D	05/22/02	11:16	02:18	Initial cal 5
SW553-IC553	W010127.D	05/22/02	11:46	02:48	Initial cal 6
SW553-IC553	W010128.D	05/22/02	12:16	03:18	Initial cal 7
OP5156-MB	W010130.D	05/22/02	13:15	04:17	Method Blank
ZZZZZZ	W010131.D	05/22/02	13:44	04:46	(unrelated sample)
OP5176-BS	W010132.D	05/22/02	14:14	05:16	Blank Spike
OP5176-MB	W010133.D	05/22/02	14:44	05:46	Method Blank
ZZZZZZ	W010134.D	05/22/02	15:13	06:15	(unrelated sample)
F13228-3	W010135.D	05/22/02	15:43	06:45	(used for QC only; not part of job F12899R)
OP5176-MS	W010136.D	05/22/02	16:12	07:14	Matrix Spike
OP5176-MSD	W010137.D	05/22/02	16:42	07:44	Matrix Spike Duplicate
ZZZZZZ	W010138.D	05/22/02	17:12	08:14	(unrelated sample)
ZZZZZZ	W010139.D	05/22/02	17:41	08:43	(unrelated sample)
ZZZZZZ	W010140.D	05/22/02	18:11	09:13	(unrelated sample)
ZZZZZZ	W010141.D	05/22/02	18:41	09:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW553-DFTPP
Lab File ID: W010121.D
Instrument ID: GCMSW
Injection Date: 05/22/02
Injection Time: 08:58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W010142.D	05/22/02	19:11	10:13	(unrelated sample)
ZZZZZZ	W010143.D	05/22/02	19:40	10:42	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std:	SW556-CC553	**Injection Date:**	05/24/02
Lab File ID:	W010186.D	**Injection Time:**	15:21
Instrument ID:	GCMSW	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	267529	6.25	134988	8.58	204032	11.11	115210	16.03	69524	18.53
Upper Limit [a]	535058	6.75	269976	9.08	408064	11.61	230420	16.53	139048	19.03
Lower Limit [b]	133765	5.75	67494	8.08	102016	10.61	57605	15.53	34762	18.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP5231-MB	250896	6.25	122772	8.58	186686	11.11	99049	16.03	60664	18.53
ZZZZZZ	165177	6.26	94385	8.59	118534	11.12	74391	16.04	52495	18.54
ZZZZZZ	189121	6.26	95540	8.59	134865	11.12	79775	16.04	55066	18.54
ZZZZZZ	221858	6.26	111732	8.59	171158	11.11	100976	16.03	63655	18.53
ZZZZZZ	233513	6.26	116804	8.58	178687	11.11	103220	16.03	65556	18.53
ZZZZZZ	229762	6.26	110367	8.58	168875	11.11	97214	16.03	63803	18.53
ZZZZZZ	215150	6.26	108731	8.58	163502	11.11	94910	16.04	61631	18.53
ZZZZZZ	209561	6.26	104979	8.59	148940	11.12	83367	16.05	54614	18.54
ZZZZZZ	226555	6.26	112729	8.59	173659	11.11	100788	16.03	63710	18.53
ZZZZZZ	235295	6.26	117696	8.59	175611	11.11	102744	16.04	64263	18.53
ZZZZZZ	228319	6.26	110497	8.58	167751	11.11	97641	16.03	62788	18.53
ZZZZZZ	243807	6.26	122448	8.59	181656	11.11	103935	16.03	62738	18.53
ZZZZZZ	228827	6.26	113019	8.59	172536	11.11	99168	16.03	62028	18.53
ZZZZZZ	226242	6.26	114082	8.59	172751	11.11	99698	16.03	61519	18.53
F12899-1R	211723	6.26	100493	8.59	155587	11.11	90819	16.03	59664	18.53
F12899-2R	239206	6.26	114637	8.59	170860	11.11	96848	16.04	61188	18.53
F12899-3R	231811	6.26	111229	8.59	166210	11.11	90436	16.04	55332	18.53
F12899-4R	234514	6.26	113285	8.58	169680	11.11	96899	16.03	60290	18.53
F12899-5R	222908	6.26	110661	8.58	169288	11.11	97416	16.03	60977	18.53

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Initial Calibration Summary

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: SW553-ICC553
Lab FileID: W010122.D

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration

Calibration Files
L1 =W010123.D L2 =W010124.D L3 =W010125.D
L4 =W010122.D L5 =W010126.D L6 =W010127.D L7 =W010128.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.363	0.401	0.399	0.432	0.413	0.412	0.408	0.404	5.23
3)P N-nitroso-di-n-pr		0.235	0.229	0.236	0.218	0.202	0.199	0.220	7.35
4) Naphthalene	1.107	1.199	1.156	1.191	1.136	1.121	1.101	1.145	3.42
5) 2-Methylnaphthale	0.690	0.741	0.736	0.762	0.732	0.730	0.691	0.726	3.63
6) 1-Methylnaphthale	0.617	0.675	0.658	0.685	0.651	0.649	0.617	0.650	4.04
7) I Acenaphthene-d10	----------ISTD----------								
8)P Hexachlorocyclope		0.299	0.357	0.392	0.416	0.434	0.437	0.389	13.66
9)S 2-Fluorobiphenyl	1.620	1.784	1.809	1.821	1.821	1.837	1.799	1.784	4.18
10) 2-Chloronaphthale	1.386	1.587	1.530	1.562	1.543	1.530	1.530	1.524	4.23
11) Acenaphthylene	1.794	2.029	2.011	2.087	2.027	2.056	2.004	2.001	4.78
12)C Acenaphthene	1.175	1.327	1.329	1.342	1.300	1.316	1.256	1.292	4.53
13)P 2,4-Dinitrophenol		0.101	0.153	0.188	0.228	0.252	0.237	0.193	29.82
14)P 4-Nitrophenol		0.246	0.264	0.273	0.268	0.290	0.256	0.266	5.67
15) Fluorene	1.269	1.422	1.442	1.466	1.444	1.484	1.398	1.418	5.04
16) I Phenanthrene-d10	----------ISTD----------								
17) Phenanthrene	1.226	1.342	1.320	1.373	1.321	1.319	1.301	1.314	3.44
18) Anthracene	1.123	1.293	1.297	1.344	1.321	1.293	1.252	1.275	5.71
19)C Fluoranthene	1.092	1.282	1.323	1.373	1.345	1.380	1.315	1.301	7.57
20) I Chrysene-d12	----------ISTD----------								
21) Pyrene	2.019	2.179	2.215	2.381	2.213	2.159	2.188	2.193	4.85
22)S Terphenyl-d14	0.858	0.914	0.935	0.998	0.975	0.966	0.972	0.945	5.03
23) Benzo[a]anthracen	1.410	1.466	1.419	1.527	1.510	1.586	1.545	1.495	4.40
24) Chrysene	1.412	1.523	1.533	1.579	1.563	1.581	1.557	1.536	3.82
25) I Perylene-d12	----------ISTD----------								
26) Benzo[b]fluoranth	1.637	1.839	1.710	1.823	1.974	2.055	2.063	1.871	8.87
27) Benzo[k]fluoranth	1.706	1.910	2.020	2.115	2.277	2.276	2.353	2.094	11.10
28)C Benzo[a]pyrene	1.409	1.449	1.466	1.607	1.685	1.776	1.731	1.589	9.33
29) Indeno[1,2,3-cd]p	1.048	1.031	1.083	1.220	1.124	1.226	1.226	1.137	7.63
30) Dibenz[a,h]anthra	0.968	0.981	1.069	1.213	1.223	1.353	1.360	1.167	14.03
31) Benzo[g,h,i]peryl	1.305	1.402	1.442	1.517	1.528	1.601	1.604	1.485	7.35

Average % RSD = 7.3

(#) = Out of Range

SIM_PAH.M Thu May 23 13:13:21 2002 MSBNA01

Continuing Calibration Summary

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)
Sample: SW556-CC553
Lab FileID: W010186.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052402A\W010186.D Vial: 2
Acq On : 24 May 2002 3:21 pm Operator: marke
Sample : cc553-4 Inst : MSBNA01
Misc : op5231,sw556,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	109	-0.02
2	S	Nitrobenzene-d5	0.404	0.423	-4.7	106	-0.02
3	P	N-nitroso-di-n-propylamine	0.220	0.240	-9.1	110	-0.01
4		Naphthalene	1.145	1.181	-3.1	108	-0.01
5		2-Methylnaphthalene	0.726	0.784	-8.0	112	-0.02
6		1-Methylnaphthalene	0.650	0.694	-6.8	110	-0.02
7	I	Acenaphthene-d10	1.000	1.000	0.0	113	-0.02
8	P	Hexachlorocyclopentadiene	0.389	0.370	4.9	107	-0.02
9	S	2-Fluorobiphenyl	1.784	1.826	-2.4	114	-0.01
10		2-Chloronaphthalene	1.524	1.522	0.1	110	-0.02
11		Acenaphthylene	2.001	2.095	-4.7	114	-0.01
12	C	Acenaphthene	1.292	1.324	-2.5	112	-0.01
13	P	2,4-Dinitrophenol	0.193	0.227	-17.6	136	-0.02
14	P	4-Nitrophenol	0.266	0.275	-3.4	114	-0.03
15		Fluorene	1.418	1.518	-7.1	117	-0.01
16	I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.01
17		Phenanthrene	1.314	1.332	-1.4	115	-0.02
18		Anthracene	1.275	1.338	-4.9	118	-0.02
19	C	Fluoranthene	1.301	1.345	-3.4	116	-0.02
20	I	Chrysene-d12	1.000	1.000	0.0	115	-0.02
21		Pyrene	2.193	2.389	-8.9	115	-0.02
22	S	Terphenyl-d14	0.945	1.015	-7.4	117	-0.02
23		Benzo[a]anthracene	1.495	1.555	-4.0	117	-0.02
24		Chrysene	1.536	1.566	-2.0	114	-0.02
25	I	Perylene-d12	1.000	1.000	0.0	108	-0.02
26		Benzo[b]fluoranthene	1.871	2.008	-7.3	119	-0.02
27		Benzo[k]fluoranthene	2.094	2.156	-3.0	110	-0.02
28	C	Benzo[a]pyrene	1.589	1.695	-6.7	114	-0.02
29		Indeno[1,2,3-cd]pyrene	1.137	1.425	-25.3#	126	-0.02
30		Dibenz[a,h]anthracene	1.167	1.389	-19.0	123	-0.02
31		Benzo[g,h,i]perylene	1.485	1.594	-7.3	113	-0.01

Average % D = 6.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W010122.D SIM_PAH.M Tue May 28 16:57:14 2002 MSBNA01

FEDEX AIRBILL 8314 5252 8692

CHAIN OF CUSTODY

ACCUTEST®

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 860-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC	Metals	Dissolved Gases	Cl, SO4, NO2, NO3	TOC	LAB USE ONLY
	13GLM02D01	4/12/02		JB	GW	11	X		X		X	3	2	1	3	1	1	
2	13GLM0201		0930			11	X		X		X	3	2	1	3	1	1	
	13GLM0201MS		0930			6	X		X		X	3	2	1	Ø	Ø	Ø	
	13GLM0201MD		0930			6	X		X		X	3	2	1	Ø	Ø	Ø	
3	13GLM02S01		0930			11	X		X		X	3	2	1	3	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4-12-02	1.	2.		2. Miranda Maupoit
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 3.2 C

5.2

FEDEX AIRBILL # 8311 5252 8692

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

6/03

ACCUTEST JOB #: F12878

ACCUTEST QUOTE #: F12899

CLIENT INFORMATION

NAME: TETRA TECH NUS

ADDRESS: 1401 OVEN PARK DR SUITE 201

CITY, STATE, ZIP: TALLAHASSEE FL 32312

SEND REPORT TO: GERALD WALKER

PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI

LOCATION: AOC-1

PROJECT NO. N2834

FAX #

ANALYTICAL INFORMATION CONTD

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOCs (8260B)	TCL SVOCs/PAHs (8270C)	Select Metals (As, Na, Mg, K, Mn, Ca)	TOC	Anions (NO2, NO3, SO4, Cl)	Dissolved Gases	LAB USE ONLY
9 mg 4/13	13GLM18I01	4/12/02	8:40	MTA JJ	GW	11	7		1		3	3	8	1	1	1	3	
	13GLM18D01	↓	9:45	↓	↓	11	7		1		3	3	8	1	1	1	3	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4/12/02	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐

TEMPERATURE 3.2° 5.2° C

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**MAY 23, 2002**
FROM:	**BERNARD F SPADA III**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/OVG/SVOC/PAH**
CTO 184, PANAMA CITY
SDG F12863

SAMPLES: 19/Aqueous

13GLM011I01	13GLM011S01	13GLM012I01
13GLM014I01	13GLM015I01	13GLM015S01
13GLM016S01	13GLM04I01	13GLM04S01
13GLM05I01	13GLM05S01	13GLM06I01
13GLM06I01D	13GLM06S01	13GLM07I01
13GLM07S01	13GLM13I01	13GLM13S01
13GLM18S01		

OVERVIEW

The sample set for CTO 184 CSS Panama City, SDG F12863 consists of eighteen (18) environmental aqueous samples and one (1) field duplicate. All samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), polynuclear aromatic hydrocarbons (PAH), and organic volatile gasses (OVG). The field duplicate pair included in this SDG is 13GLM06I01 and 13GLM06I01D.

The samples were collected by Tetra Tech NUS on April 9 and 10, 2002 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8310, and RSK 147/175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS tuning and system performance
• Initial/continuing calibrations
* • Laboratory method and field quality control blank results
• Surrogate spike recoveries
* • Blank Spike/Blank Spike Duplicate Results
* • Matrix Spike/Matrix Spike Duplicate Results
* • Internal Standard Performance
* • Compound Identification
* • Compound Quantitation
• Field Duplicate Precision
• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data

quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatile

The field duplicate pair 13GLM06I01 and 13GLM06I01D exceeded the 35% relative percent difference (RPD) quality control criteria for acetone. The results for acetone in the aforementioned samples were qualified as estimated (J).

Positive results reported below the Reporting Limit (RL) were qualified as estimated, (J).

The following table illustrates differences between the laboratory's RL and the Required Quantitation Limit (RQL) listed in the Statement of Work (SOW):

Compound	RL	RQL
Methylene Chloride	5 ug/L	2 ug/L
Total Xylenes	3 ug/L	1 ug/L
Total 1,2-Dichloroethene	2 ug/L	1 ug/L
Carbon Disulfide	5 ug/L	1 ug/L

A blank spike recovery for tetrachloroethene exceeded the upper quality control limit on 4/15/02. No action was taken because all results were nondetected and no validation action is required for blank spike noncompliance alone.

Semivolatile

The initial calibration exceeded the 30% relative standard deviation (RSD) quality control criteria for benzaldehyde. Non-detected results for benzaldehyde were not qualified since the %RSD was less than 50%.

Positive results reported below the Reporting Limit (RL) were qualified as estimated, (J).

The following table illustrates differences between the laboratory's RL and the Required Quantitation Limit (RQL) listed in the Statement of Work (SOW):

Compound	RL	RQL
Benzaldenyde	25 ug/L	10 ug/L
Acenaphthene	5 ug/L	1 ug/L
Acenaphthylene	5 ug/L	1 ug/L
Anthracene	5 ug/L	1 ug/L
Benzo(a)anthracene	5 ug/L	1 ug/L
Benzo(a)pyrene	5 ug/L	1 ug/L
Benzo(b)fluoranthene	5 ug/L	1 ug/L
Benzo(g,h,i)perylene	5 ug/L	1 ug/L
Benzo(k)fluoranthene	5 ug/L	1 ug/L
Chrysene	5 ug/L	1 ug/L
Dibenz(a,h)anthracene	5 ug/L	1 ug/L

PAHs were reported in both the 8270C analyses and in the 8310 analyses. This item is noted for completeness. PAH results reported in the 8270C fraction analyses may be removed from the database because the 8310 analyses yield lower reporting limits.

PAH

Both surrogates were recovered below the quality control criteria on both detectors in sample 13GLM04I01. All results in sample 13GLM04I01 were qualified as estimated (J, UJ).

The surrogate, p-terphenyl, was recovered above the quality control criteria on one detector in sample 13GLM05S01. No action was taken because all results were non-detected.

Positive results reported below the Reporting Limit (RL) were qualified as estimated, (J).

The following table illustrates differences between the laboratory's RL and the Required Quantitation Limit (RQL) listed in the Statement of Work (SOW):

Compound	RL	RQL
Acenaphthene	4 ug/L	1 ug/L
Acenaphthylene	4 ug/L	1 ug/L
Anthracene	4 ug/L	1 ug/L
Chrysene	2 ug/L	1 ug/L

Organic Volatile Gases

The continuing calibration analyzed on April 12 at 1:30p exceeded the 15 %D quality control criteria for methane, ethane, and ethene. All positive and nondetected results for methane, ethane, and ethene in samples 13GLM012I01, 13GLM014I01, 13GLM04I01, and 13GLM04S01 were qualified as estimated (J) and (UJ), respectively.

The field duplicate pair 13GLM06I01 and 13GLM06I01D exceeded the 35% relative percent difference (RPD) quality control criteria for methane. The results for methane in the aforementioned samples were qualified as estimated (J).

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on calibration non-compliances and field duplicate imprecision.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines "Navy IRCDQM (9/1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Bernard F Spada III

Tetra Tech NUS
Bernard F Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	2.2		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	8.3		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	17.2		
1,1-DICHLOROETHENE	2.7		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	8.1		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	3.1		
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1.7		
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	6.5		
1,1-DICHLOROETHENE	2.2		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	27.8		
1,1-DICHLOROETHENE	18.6		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	6.7		
BENZENE	3.9		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	4.9		
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1.7		
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	4.9		
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	3.6		
1,1-DICHLOROETHENE	1		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	12.1		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	4		
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	6.4		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	10.7		
1,1-DICHLOROETHENE	2.3		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	4.8	J	P
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	8.8		
1,1-DICHLOROETHENE	1.8		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	6.8		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	12		
1,1-DICHLOROETHENE	2.3		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	4.8	J	P
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	12.6		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5.8		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	7		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	6	U	
1-METHYLNAPHTHALENE	6	U	
2,2'-OXYBIS(1-CHLOROPROPA	6	U	
2,4,5-TRICHLOROPHENOL	6	U	
2,4,6-TRICHLOROPHENOL	6	U	
2,4-DICHLOROPHENOL	6	U	
2,4-DIMETHYLPHENOL	30	U	
2,4-DINITROPHENOL	30	U	
2,4-DINITROTOLUENE	6	U	
2,6-DINITROTOLUENE	6	U	
2-CHLORONAPHTHALENE	6	U	
2-CHLOROPHENOL	6	U	
2-METHYLNAPHTHALENE	6	U	
2-METHYLPHENOL	6	U	
2-NITROANILINE	6	U	
2-NITROPHENOL	6	U	
3&4-METHYLPHENOL	6	U	
3,3'-DICHLOROBENZIDINE	12	U	
3-NITROANILINE	6	U	
4,6-DINITRO-2-METHYLPHENO	12	U	
4-BROMOPHENYL PHENYL ET	6	U	
4-CHLORO-3-METHYLPHENOL	6	U	
4-CHLOROANILINE	6	U	
4-CHLOROPHENYL PHENYL ET	6	U	
4-NITROANILINE	6	U	
4-NITROPHENOL	30	U	
ACENAPHTHENE	6	U	
ACENAPHTHYLENE	6	U	
ACETOPHENONE	6	U	
ANTHRACENE	6	U	

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	6	U	
BENZALDEHYDE	30	U	
BENZO(A)ANTHRACENE	6	U	
BENZO(A)PYRENE	6	U	
BENZO(B)FLUORANTHENE	6	U	
BENZO(G,H,I)PERYLENE	6	U	
BENZO(K)FLUORANTHENE	6	U	
BIS(2-CHLOROETHOXY)METHA	6	U	
BIS(2-CHLOROETHYL)ETHER	6	U	
BIS(2-ETHYLHEXYL)PHTHALAT	6	U	
BUTYL BENZYL PHTHALATE	6	U	
CAPROLACTAM	6	U	
CARBAZOLE	6	U	
CHRYSENE	6	U	
DI-N-BUTYL PHTHALATE	6	U	
DI-N-OCTYL PHTHALATE	6	U	
DIBENZO(A,H)ANTHRACENE	6	U	
DIBENZOFURAN	6	U	
DIETHYL PHTHALATE	6	U	
DIMETHYL PHTHALATE	6	U	
FLUORANTHENE	6	U	
FLUORENE	6	U	
HEXACHLOROBUTADIENE	6	U	
HEXACHLOROCYCLOPENTADI	6	U	
HEXACHLOROETHANE	6	U	
INDENO(1,2,3-CD)PYRENE	6	U	
N-NITROSO-DI-N-PROPYLAMIN	6	U	
N-NITROSODIPHENYLAMINE	6	U	
NAPHTHALENE	6	U	
NITROBENZENE	6	U	

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	30	U	
PHENANTHRENE	6	U	
PHENOL	6	U	
PYRENE	6	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5.5	U	
1-METHYLNAPHTHALENE	5.5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5.5	U	
2,4,5-TRICHLOROPHENOL	5.5	U	
2,4,6-TRICHLOROPHENOL	5.5	U	
2,4-DICHLOROPHENOL	5.5	U	
2,4-DIMETHYLPHENOL	28	U	
2,4-DINITROPHENOL	28	U	
2,4-DINITROTOLUENE	5.5	U	
2,6-DINITROTOLUENE	5.5	U	
2-CHLORONAPHTHALENE	5.5	U	
2-CHLOROPHENOL	5.5	U	
2-METHYLNAPHTHALENE	5.5	U	
2-METHYLPHENOL	5.5	U	
2-NITROANILINE	5.5	U	
2-NITROPHENOL	5.5	U	
3&4-METHYLPHENOL	5.5	U	
3,3'-DICHLOROBENZIDINE	11	U	
3-NITROANILINE	5.5	U	
4,6-DINITRO-2-METHYLPHENO	11	U	
4-BROMOPHENYL PHENYL ET	5.5	U	
4-CHLORO-3-METHYLPHENOL	5.5	U	
4-CHLOROANILINE	5.5	U	
4-CHLOROPHENYL PHENYL ET	5.5	U	
4-NITROANILINE	5.5	U	
4-NITROPHENOL	28	U	
ACENAPHTHENE	5.5	U	
ACENAPHTHYLENE	5.5	U	
ACETOPHENONE	5.5	U	
ANTHRACENE	5.5	U	

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
ATRAZINE	5.5	U	
BENZALDEHYDE	28	U	
BENZO(A)ANTHRACENE	5.5	U	
BENZO(A)PYRENE	5.5	U	
BENZO(B)FLUORANTHENE	5.5	U	
BENZO(G,H,I)PERYLENE	5.5	U	
BENZO(K)FLUORANTHENE	5.5	U	
BIS(2-CHLOROETHOXY)METHA	5.5	U	
BIS(2-CHLOROETHYL)ETHER	5.5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5.5	U	
BUTYL BENZYL PHTHALATE	5.5	U	
CAPROLACTAM	5.5	U	
CARBAZOLE	5.5	U	
CHRYSENE	5.5	U	
DI-N-BUTYL PHTHALATE	5.5	U	
DI-N-OCTYL PHTHALATE	5.5	U	
DIBENZO(A,H)ANTHRACENE	5.5	U	
DIBENZOFURAN	5.5	U	
DIETHYL PHTHALATE	5.5	U	
DIMETHYL PHTHALATE	5.5	U	
FLUORANTHENE	5.5	U	
FLUORENE	5.5	U	
HEXACHLOROBUTADIENE	5.5	U	
HEXACHLOROCYCLOPENTADI	5.5	U	
HEXACHLOROETHANE	5.5	U	
INDENO(1,2,3-CD)PYRENE	5.5	U	
N-NITROSO-DI-N-PROPYLAMIN	5.5	U	
N-NITROSODIPHENYLAMINE	5.5	U	
NAPHTHALENE	5.5	U	
NITROBENZENE	5.5	U	

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	28	U	
PHENANTHRENE	5.5	U	
PHENOL	5.5	U	
PYRENE	5.5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5.2		
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	4.4	J	P
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4.3		
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	1.4	J	P
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	1	J	P
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	1.1	J	P
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	0.62	J	P
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	UJ	R
2-METHYLNAPHTHALENE	2	UJ	R
ACENAPHTHENE	1.6	J	PR
ACENAPHTHYLENE	4	UJ	R
ANTHRACENE	2	UJ	R
BENZO(A)ANTHRACENE	0.2	UJ	R
BENZO(A)PYRENE	0.2	UJ	R
BENZO(B)FLUORANTHENE	0.2	UJ	R
BENZO(G,H,I)PERYLENE	0.2	UJ	R
BENZO(K)FLUORANTHENE	0.2	UJ	R
CHRYSENE	2	UJ	R
DIBENZO(A,H)ANTHRACENE	0.2	UJ	R
FLUORANTHENE	2	UJ	R
FLUORENE	2	UJ	R
INDENO(1,2,3-CD)PYRENE	0.2	UJ	R
NAPHTHALENE	2	UJ	R
PHENANTHRENE	2	UJ	R
PYRENE	2	UJ	R

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2.2	U	
2-METHYLNAPHTHALENE	2.2	U	
ACENAPHTHENE	4.4	U	
ACENAPHTHYLENE	4.4	U	
ANTHRACENE	2.2	U	
BENZO(A)ANTHRACENE	0.22	U	
BENZO(A)PYRENE	0.22	U	
BENZO(B)FLUORANTHENE	0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U	
BENZO(K)FLUORANTHENE	0.22	U	
CHRYSENE	2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U	
FLUORANTHENE	2.2	U	
FLUORENE	2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U	
NAPHTHALENE	2.2	U	
PHENANTHRENE	2.2	U	
PYRENE	2.2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	0.99	J	P
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2.2	U	
2-METHYLNAPHTHALENE	2.2	U	
ACENAPHTHENE	1.1	J	P
ACENAPHTHYLENE	4.4	U	
ANTHRACENE	2.2	U	
BENZO(A)ANTHRACENE	0.22	U	
BENZO(A)PYRENE	0.22	U	
BENZO(B)FLUORANTHENE	0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U	
BENZO(K)FLUORANTHENE	0.22	U	
CHRYSENE	2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U	
FLUORANTHENE	2.2	U	
FLUORENE	2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U	
NAPHTHALENE	2.2	U	
PHENANTHRENE	2.2	U	
PYRENE	2.2	U	

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	2	U	
2-METHYLNAPHTHALENE	2	U	
ACENAPHTHENE	4	U	
ACENAPHTHYLENE	4	U	
ANTHRACENE	2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2	U	
FLUORENE	2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2	U	
PHENANTHRENE	2	U	
PYRENE	2	U	

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM011I01
samp_date	4/9/02
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	170		

nsample	13GLM011S01
samp_date	4/9/02
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	734		

nsample	13GLM012I01
samp_date	4/9/02
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	527	J	C

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM014I01
samp_date	4/9/02
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	210	J	C

nsample	13GLM015I01
samp_date	4/10/02
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	141		

nsample	13GLM015S01
samp_date	4/10/02
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	0.75		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM016S01
samp_date	4/10/02
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	194		

nsample	13GLM04I01
samp_date	4/9/02
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	300	J	C

nsample	13GLM04S01
samp_date	4/9/02
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	0.5	UJ	C

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM05I01
samp_date	4/9/02
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	18.8		

nsample	13GLM05S01
samp_date	4/9/02
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	4.39		

nsample	13GLM06I01
samp_date	4/10/02
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	158	J	G

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM06I01D
samp_date	4/10/02
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	93.8	J	G

nsample	13GLM06S01
samp_date	4/10/02
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	7.66		

nsample	13GLM07I01
samp_date	4/10/02
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	5.64		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM07S01
samp_date	4/10/02
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	3.12		

nsample	13GLM13I01
samp_date	4/10/02
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	0.84	J	P
METHANE	12.7		

nsample	13GLM13S01
samp_date	4/10/02
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	4.72		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM18S01
samp_date	4/10/02
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	2.27		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015934.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.3	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	2.2	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015935.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	17.2	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.7	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	1.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015930.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	6.5	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.2	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015931.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.7	5.0	ug/l	
71-43-2	Benzene	3.9	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	27.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	18.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.9	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	4.9	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.7	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

00235

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015926.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	3.6	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015923.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	12.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	4.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015927.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.4	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015928.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	4.8	5.0	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	10.7	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.3	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015929.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015932.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015933.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015911.D	1	04/12/02	KW	n/a	n/a	VG496
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.8	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	8.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.8	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015912.D	1	04/12/02	KW	n/a	n/a	VG496
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	4.8	5.0	ug/l	J
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	12.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	2.3	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015922.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	12.6	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015946.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015947.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	5.8	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015937.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.0	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015936.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015948.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009512.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	6.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	6.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	6.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	30	ug/l	
51-28-5	2,4-Dinitrophenol	ND	30	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	12	ug/l	
95-48-7	2-Methylphenol	ND	6.0	ug/l	
	3&4-Methylphenol	ND	6.0	ug/l	
88-75-5	2-Nitrophenol	ND	6.0	ug/l	
100-02-7	4-Nitrophenol	ND	30	ug/l	
87-86-5	Pentachlorophenol	ND	30	ug/l	
108-95-2	Phenol	ND	6.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	6.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	6.0	ug/l	
83-32-9	Acenaphthene	ND	6.0	ug/l	
208-96-8	Acenaphthylene	ND	6.0	ug/l	
98-86-2	Acetophenone	ND	6.0	ug/l	
120-12-7	Anthracene	ND	6.0	ug/l	
1912-24-9	Atrazine	ND	6.0	ug/l	
100-52-7	Benzaldehyde	ND	30	ug/l	
56-55-3	Benzo(a)anthracene	ND	6.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	6.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	6.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	6.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	6.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	6.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	6.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	6.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	6.0	ug/l	
106-47-8	4-Chloroaniline	ND	6.0	ug/l	
105-60-2	Caprolactam	ND	6.0	ug/l	
86-74-8	Carbazole	ND	6.0	ug/l	

00507

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	6.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	6.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	6.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	6.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	6.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	6.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	6.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	12	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	6.0	ug/l	
132-64-9	Dibenzofuran	ND	6.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	6.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	6.0	ug/l	
84-66-2	Diethyl phthalate	ND	6.0	ug/l	
131-11-3	Dimethyl phthalate	ND	6.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	6.0	ug/l	
206-44-0	Fluoranthene	ND	6.0	ug/l	
86-73-7	Fluorene	ND	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	6.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	6.0	ug/l	
67-72-1	Hexachloroethane	ND	6.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	6.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	6.0	ug/l	
88-74-4	2-Nitroaniline	ND	6.0	ug/l	
99-09-2	3-Nitroaniline	ND	6.0	ug/l	
100-01-6	4-Nitroaniline	ND	6.0	ug/l	
91-20-3	Naphthalene	ND	6.0	ug/l	
98-95-3	Nitrobenzene	ND	6.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	6.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	6.0	ug/l	
85-01-8	Phenanthrene	ND	6.0	ug/l	
129-00-0	Pyrene	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		20-125%
4165-62-2	Phenol-d5	42%		10-125%
118-79-6	2,4,6-Tribromophenol	89%		35-140%
4165-60-0	Nitrobenzene-d5	83%		46-125%
321-60-8	2-Fluorobiphenyl	84%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009513.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	96%		35-140%
4165-60-0	Nitrobenzene-d5	89%		46-125%
321-60-8	2-Fluorobiphenyl	88%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009508.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	93%		35-140%
4165-60-0	Nitrobenzene-d5	93%		46-125%
321-60-8	2-Fluorobiphenyl	86%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	86%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009509.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

2834.
KA0070105

ABN Special List

CAS No.	Compound	Result	RL	
95-57-8	2-Chlorophenol	ND	5.0	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l
105-67-9	2,4-Dimethylphenol	ND	25	ug/l
51-28-5	2,4-Dinitrophenol	ND	25	ug/l
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l
95-48-7	2-Methylphenol	ND	5.0	ug/l
	3&4-Methylphenol	ND	5.0	ug/l
88-75-5	2-Nitrophenol	ND	5.0	ug/l
100-02-7	4-Nitrophenol	ND	25	ug/l
87-86-5	Pentachlorophenol	ND	25	ug/l
108-95-2	Phenol	ND	5.0	ug/l
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l
83-32-9	Acenaphthene	ND	5.0	ug/l
208-96-8	Acenaphthylene	ND	5.0	ug/l
98-86-2	Acetophenone	ND	5.0	ug/l
120-12-7	Anthracene	ND	5.0	ug/l
1912-24-9	Atrazine	ND	5.0	ug/l
100-52-7	Benzaldehyde	ND	25	ug/l
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l
106-47-8	4-Chloroaniline	ND	5.0	ug/l
105-60-2	Caprolactam	ND	5.0	ug/l
86-74-8	Carbazole	ND	5.0	ug/l

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		20-125%
4165-62-2	Phenol-d5	36%		10-125%
118-79-6	2,4,6-Tribromophenol	88%		35-140%
4165-60-0	Nitrobenzene-d5	85%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009504.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	88%		35-140%
4165-60-0	Nitrobenzene-d5	84%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009503.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		20-125%
4165-62-2	Phenol-d5	36%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	83%		46-125%
321-60-8	2-Fluorobiphenyl	81%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		49-126%

00464

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009505.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	39%		10-125%
118-79-6	2,4,6-Tribromophenol	89%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	84%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009506.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	83%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009507.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		20-125%
4165-62-2	Phenol-d5	38%		10-125%
118-79-6	2,4,6-Tribromophenol	92%		35-140%
4165-60-0	Nitrobenzene-d5	89%		46-125%
321-60-8	2-Fluorobiphenyl	86%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009510.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		20-125%
4165-62-2	Phenol-d5	37%		10-125%
118-79-6	2,4,6-Tribromophenol	88%		35-140%
4165-60-0	Nitrobenzene-d5	86%		46-125%
321-60-8	2-Fluorobiphenyl	83%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009511.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		20-125%
4165-62-2	Phenol-d5	37%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	85%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009501.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		20-125%
4165-62-2	Phenol-d5	35%		10-125%
118-79-6	2,4,6-Tribromophenol	86%		35-140%
4165-60-0	Nitrobenzene-d5	80%		46-125%
321-60-8	2-Fluorobiphenyl	78%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009502.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
98-86-2	Acetophenone	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
1912-24-9	Atrazine	ND	5.5	ug/l	
100-52-7	Benzaldehyde	ND	28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
105-60-2	Caprolactam	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		20-125%
4165-62-2	Phenol-d5	36%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	87%		46-125%
321-60-8	2-Fluorobiphenyl	84%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009500.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		20-125%
4165-62-2	Phenol-d5	31%		10-125%
118-79-6	2,4,6-Tribromophenol	79%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	77%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009516.D	1	04/23/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		20-125%
4165-62-2	Phenol-d5	34%		10-125%
118-79-6	2,4,6-Tribromophenol	90%		35-140%
4165-60-0	Nitrobenzene-d5	86%		46-125%
321-60-8	2-Fluorobiphenyl	83%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009523.D	1	04/23/02	ME	04/16/02	OP4979	SW527
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		20-125%
4165-62-2	Phenol-d5	33%		10-125%
118-79-6	2,4,6-Tribromophenol	89%		35-140%
4165-60-0	Nitrobenzene-d5	86%		46-125%
321-60-8	2-Fluorobiphenyl	85%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009515.D	1	04/23/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		20-125%
4165-62-2	Phenol-d5	34%		10-125%
118-79-6	2,4,6-Tribromophenol	82%		35-140%
4165-60-0	Nitrobenzene-d5	83%		46-125%
321-60-8	2-Fluorobiphenyl	82%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009514.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	4.4	5.0	ug/l	J
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	5.2	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		20-125%
4165-62-2	Phenol-d5	33%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	76%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009524.D	1	04/23/02	ME	04/16/02	OP4979	SW527
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		20-125%
4165-62-2	Phenol-d5	34%		10-125%
118-79-6	2,4,6-Tribromophenol	84%		35-140%
4165-60-0	Nitrobenzene-d5	84%		46-125%
321-60-8	2-Fluorobiphenyl	79%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%		49-126%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010612.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		33-141%
92-94-4	p-Terphenyl	76%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010613.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		33-141%
92-94-4	p-Terphenyl	72%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010607.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	4.3	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	1.4	2.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		33-141%
92-94-4	p-Terphenyl	54%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010626.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	1.0	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010602.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.1	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	0.62	2.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	61%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010601.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	73%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010604.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010605.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2	AA010625.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	980 ml	1.0 ml

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.6	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	17% [b]	17%	33-141%
92-94-4	p-Terphenyl	18% [b]	18%	31-122%

(a) Confirmed by GC/MS, 8270 extract ran in SIM mode.
(b) Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010606.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010609.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010610.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	126%		33-141%
92-94-4	p-Terphenyl	128%		31-122%

(a) Suspected double surrogate; however, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010623.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.99	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010624.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.1	4.4	ug/l	J
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	69%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010598.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	71%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010616.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	84%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010617.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	75%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010615.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010614.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA010618.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008359.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	170	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008360.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	734	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008350.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	527	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008351.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	210	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008361.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	141	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008368.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	0.75	0.50	ug/l	J
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008362.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	194	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008347.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	300	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008348.D	1	04/12/02	RA	n/a	n/a	GXY114
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008357.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	18.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008358.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	4.39	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008366.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	158	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008367.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	93.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008364.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	7.66	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008379.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	5.64	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008376.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	3.12	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008375.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	12.7	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	0.84	1.0	ug/l	J

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008374.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	4.72	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008378.D	1	04/17/02	RA	n/a	n/a	GXY116
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2.27	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	13GLM06I01	13GLM06I01D	RPD	DIFFERENCE
1,1-Dichloroethane	8.8	12	30.77	3.2
1,1-Dichloroethene	1.8	2.3	24.39	0.5
Acetone	6.8	12.6	59.79	5.8
Acenaphthene	0.99	1.1	10.53	0.11
Methane	158	93.8	50.99	64.2

F12863

HOLDING TIME
05/15/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	CL	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	CL	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
%	13GLM015S01	GP3117-S2	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	CL	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM18S01	F12863-19	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
%	13GLM04I01	F12863-7DUP	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
%	13GLM05I01	F12863-11DUP	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06S01	F12863-1	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
%	13GLM13I01	F12863-16DUP	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
%	13GLM04I01	F12863-7DUP	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
%	13GLM05I01	F12863-11DUP	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM06S01	F12863-1	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
%	13GLM13I01	F12863-16DUP	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM04I01	F12863-7	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM05I01	F12863-11	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
%	13GLM06S01	MP4336-SD1	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM13I01	F12863-16	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
%	13GLM04I01	F12863-7DUP	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
%	13GLM05I01	F12863-11DUP	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06S01	F12863-1	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
%	13GLM13I01	F12863-16DUP	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM015S01	F12863-4	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
%	13GLM18S01	GP3107-S2	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM015S01	F12863-4	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM18S01	GP3107-S2	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
%	13GLM011I01	F12863-13	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM011S01	F12863-14	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM014I01	F12863-10	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM015I01	F12863-5	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM015S01	F12863-4	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM016S01	F12863-6	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM04I01	F12863-7	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM04S01	F12863-8	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM05I01	F12863-11	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM05S01	F12863-12	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM06I01	F12863-2	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM06I01D	F12863-3	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM06S01	F12863-1	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM07I01	F12863-17	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM07S01	F12863-18	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM13I01	F12863-16	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM13S01	F12863-15	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM18S01	F12863-19	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM011I01	F12863-13	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM011S01	F12863-14	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM012I01	F12863-9	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM014I01	F12863-10	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM015I01	F12863-5	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM015S01	F12863-4MSD	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM016S01	F12863-6	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM04I01	F12863-7	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM04S01	F12863-8	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM05I01	F12863-11	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM05S01	F12863-12	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM06I01	F12863-2	NORMAL	F12863	OV	04/10/02	/ /	04/12/02	0	0	2
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	OV	04/10/02	/ /	04/12/02	0	0	2
%	13GLM06S01	F12863-1	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM07I01	F12863-17	NORMAL	F12863	OV	04/10/02	/ /	04/16/02	0	0	6
%	13GLM07S01	F12863-18	NORMAL	F12863	OV	04/10/02	/ /	04/16/02	0	0	6
%	13GLM13I01	F12863-16	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM13S01	F12863-15	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM18S01	F12863-19	NORMAL	F12863	OV	04/10/02	/ /	04/16/02	0	0	6
%	13GLM011I01	F12863-13	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM011S01	F12863-14	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM012I01	F12863-9	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM014I01	F12863-10	NORMAL	F12863	PAH	04/09/02	04/16/02	05/06/02	7	20	27
%	13GLM015I01	F12863-5	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM015S01	F12863-4	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM016S01	F12863-6	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM04I01	F12863-7	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM04S01	F12863-8	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM05I01	F12863-11	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM05S01	F12863-12	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM06I01	F12863-2	NORMAL	F12863	PAH	04/10/02	04/16/02	05/06/02	6	20	26
%	13GLM06I01D	F12863-3	NORMAL	F12863	PAH	04/10/02	04/16/02	05/06/02	6	20	26
%	13GLM06S01	F12863-1	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM07I01	F12863-17	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM07S01	F12863-18	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM13I01	F12863-16	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM13S01	F12863-15	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM18S01	F12863-19	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	SO4	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	SO4	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
%	13GLM015S01	GP3117-S2	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	SO4	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM18S01	F12863-19	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM015S01	F12863-4	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM18S01	F12863-19	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834, CTO-0184, WR# PC184-2
Report Date: May 10, 2002
Job Number: F12863

19 samples were collected on April 10, 2002, and received on April 11, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOC, SW846-8260B:

- The Blank Spike associated with analytical batch VG497 had a recovery for Tetrachloroethylene slightly above acceptance limits. All associated samples were non-detect for this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch VG498 had one RPD above acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

PAHs, SW846-8310:

- Sample 13GLM04I01 had surrogate recoveries below acceptance limits. The extract was analyzed by GC/MS 8270 SIM to confirm recoveries. There was no more sample available to re-extract. The sample has been footnoted accordingly.
- Sample 13GLM05S01 appears as though it may have been double surrogated. One of the surrogate recoveries is slightly above acceptance limits. The sample is non-detect. Data not adversely affected. The sample has been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch MP4336 and MP4347 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and/or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

General Chemistry: Nitrite

- The MS associated with analytical batch GP3107/GN9265 had a recovery slightly below acceptance limits. The low spike recovery indicates a possible matrix interference and/or sample non-homogeneity. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

60108

ACCUTEST JOB #: F12863

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY: TALLAHASSEE STATE: FL ZIP: 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC-1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	/	TCL VOA's (8260B)	TCL SVOC's/PAH's (8270C)	TAL Metals	Dissolved Gases	TOC	Anions (NO2, NO3, SO4, Cl)						LAB USE ONLY
1	13GLM06501	4/10/02	08:43	MTA/JT	GW	11	7		1		3		3	2	1	3	1	1						
2	13GLM06I01	4/10/02	09:37	↓	GW	11	7		1		3		3	2	1	3	1	1						
3	13GLM06I01D	4/10/02	09:37	↓	GW	11	7		1		3		3	2	1	3	1	1						
4	13GLM01550 1	4/10/02	11:55	TA/JT	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
5	13GLM015I01	4/10/02	12:37	↓	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
6	13GLM016501	4/10/02	15:05	↓	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
	~~13GLM016I01~~	~~4/10/02~~																						

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	4/12/02 1200	1.	2.	4/11/02 930	2. Miranda Dangat
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 113
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 2.0 C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: 112863
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PANAMA CITY RFI
LOCATION: AOC 1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOCs (8260B)	TCL SVOCs (PAHs) (8270)	Metals (As, Na, Mg, Cu, K)	Dissolved Gases	NO2/NO3/SO4/Cl	TOC	LAB USE ONLY
1)	13GLM04I01	4/9/02	11:20	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓	
2)	13GLM04S01	4/9/02	10:57	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓	
3)	13GLM012I01	4/9/02	13:25	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓	
4)	13GLM014I01	4/9/02	16:55	MTA JJ	GW	11	7	/	1	/	3	3✓	2✓	1✓	3✓	1✓	1✓	
5)	13GLM05I01		1600	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	
6)	13GLM05S01		1645	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	
7)	13GLM011I01		1030	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	
8)	13GLM011S01		1120	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	4/10/02 1700	1.	2.	4/11/02 930	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 2/3
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 2.0 C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12863
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: Tetra Tech NUS Inc
ADDRESS: 1401 Oven Park Dr #201
CITY, STATE, ZIP: Tallahassee FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 3824
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

	ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC/PAH	TOC	Metals	Cl, SO4, NO2, NO3	Dissolved Gases	LAB USE ONLY
15	9)	13GLM13S01	4/10/02	1200	JB	GW	11	X		X	X	X	3	2	1	1	1	3	
16	10)	13GLM13I01		1230				X		X		X	3	2	1	1	1	3	
17	11)	13GLM07I01		0930				X		X		X	3	2	1	1	1	3	
18	12)	13GLM07S01		0845				X		X		X	3	2	1	1	1	3	
19	13)	13GLM18S01		1515				X		X		X	3	2	1	1	1	3	

mf 4/11/02

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME: 1700 4/10/02	RECEIVED BY: 1.	RELINQUISHED BY: 2.	DATE TIME: 4/11/02 930	RECEIVED BY: 2. Miranda Sargent
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 3/3
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

Instrument Performance Check (BFB)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VG491-BFB	**Injection Date:**	04/08/02
Lab File ID:	G0015802.D	**Injection Time:**	11:06
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	37600	22.7	Pass
75	30.0 - 60.0% of mass 95	86099	52.0	Pass
95	Base peak, 100% relative abundance	165675	100.0	Pass
96	5.0 - 9.0% of mass 95	11417	6.9	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	122307	73.8	Pass
175	5.0 - 9.0% of mass 174	9111	5.5 (7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	118421	71.5 (96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	8806	5.3 (7.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG491-IC491	G0015803.D	04/08/02	11:24	00:18	Initial cal 1
VG491-IC491	G0015804.D	04/08/02	11:56	00:50	Initial cal 5
VG491-IC491	G0015805.D	04/08/02	12:27	01:21	Initial cal 20
VG491-ICC491	G0015806.D	04/08/02	12:58	01:52	Initial cal 40
VG491-IC491	G0015807.D	04/08/02	13:30	02:24	Initial cal 70
VG491-IC491	G0015808.D	04/08/02	14:01	02:55	Initial cal 100
ZZZZZZ	G0015811.D	04/08/02	16:00	04:54	(unrelated sample)
ZZZZZZ	G0015812.D	04/08/02	16:32	05:26	(unrelated sample)
ZZZZZZ	G0015813.D	04/08/02	17:03	05:57	(unrelated sample)
ZZZZZZ	G0015814.D	04/08/02	17:35	06:29	(unrelated sample)
ZZZZZZ	G0015815.D	04/08/02	18:06	07:00	(unrelated sample)
ZZZZZZ	G0015816.D	04/08/02	18:38	07:32	(unrelated sample)

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.275	0.275	0.364	0.308	0.289	0.268	0.296	12.11
3)	P	Chloromethane		0.374	0.422	0.389	0.319	0.301	0.361	13.95
4)	C	Vinyl Chloride	0.313	0.327	0.373	0.362	0.289	0.271	0.323	12.40
5)		Bromomethane	0.259	0.233	0.224	0.220	0.172	0.169	0.213	16.72 QR
6)		Chloroethane	0.213	0.199	0.222	0.207	0.170	0.164	0.196	12.01
7)		Trichlorofluorometh	0.356	0.344	0.411	0.394	0.346	0.339	0.365	8.26
8)		Acrolein		0.028	0.031	0.032	0.026	0.025	0.028	10.93
9)	C	1,1-Dichloroethene	0.484	0.434	0.445	0.435	0.374	0.349	0.420	11.81
10)		Freon 113	0.262	0.242	0.273	0.266	0.227	0.208	0.246	10.28
11)		Acetone		0.094	0.103	0.097	0.083	0.078	0.091	11.34
12)		Iodomethane		0.395	0.456	0.412	0.358	0.334	0.391	12.15
13)		Carbon Disulfide	0.839	0.783	0.883	0.810	0.686	0.638	0.773	12.10
14)		Methyl acetate		0.204	0.250	0.201	0.200	0.194	0.210	10.97
15)		Methylene Chloride		0.465	0.436	0.354	0.354	0.334	0.389	14.97
16)		Tert Butyl Alcohol		0.028	0.035	0.028	0.027	0.028	0.029	10.92
17)		trans-1,2-Dichloroe	0.437	0.433	0.462	0.387	0.378	0.356	0.409	10.06
18)		Acrylonitrile		0.088	0.106	0.087	0.084	0.082	0.089	10.38
19)		Methyl Tert Butyl E		0.817	0.955	0.762	0.762	0.721	0.803	11.38
20)		Hexane	0.377	0.360	0.407	0.315	0.330	0.299	0.348	11.67
21)	P	1,1-Dichloroethane	0.518	0.523	0.548	0.448	0.458	0.427	0.487	10.06
22)		Vinyl acetate		0.583	0.614	0.514	0.511	0.477	0.540	10.51
23)		Di-isopropyl ether		1.126	1.041	0.916	0.943	0.866	0.978	10.66
24)		ETBE		1.066	0.923	0.891	0.914	0.856	0.930	8.64
25)		2,2-Dichloropropane		0.346	0.299	0.290	0.282	0.251	0.293	11.69
26)		cis-1,2-Dichloroeth		0.294	0.274	0.264	0.267	0.242	0.268	6.92
27)		2-Butanone		0.127	0.134	0.125	0.126	0.119	0.126	4.15
28)		Bromochloromethane	0.140	0.167	0.154	0.147	0.146	0.140	0.149	6.92
29)		Tetrahydrofuran		0.101	0.094	0.086	0.087	0.083	0.090	7.91
30)	C	Chloroform		0.574	0.504	0.486	0.492	0.450	0.501	9.07
31)		1,1,1-Trichloroetha	0.473	0.441	0.408	0.381	0.390	0.370	0.411	9.60
32)	S	Dibromofluoromethan	0.302	0.303	0.308	0.307	0.311	0.312	0.307	1.40
33)		Cyclohexane		0.475	0.445	0.427	0.441	0.414	0.440	5.26
34)		1,1-Dichloropropene		0.379	0.338	0.323	0.341	0.325	0.341	6.56
35)		Carbon Tetrachlorid	0.352	0.355	0.356	0.348	0.358	0.340	0.351	1.94
36)	S	1,2-Dichloroethane-	0.413	0.408	0.420	0.411	0.414	0.435	0.417	2.33
37)		Benzene		1.045	0.911	0.868	0.886	0.826	0.907	9.15
38)		1,2-Dichloroethane		0.518	0.465	0.454	0.456	0.433	0.465	6.88
39)		TAME		0.893	0.828	0.790	0.803	0.754	0.813	6.38
40)		Trichloroethene		0.308	0.271	0.268	0.276	0.262	0.277	6.52
41)		Methylcyclohexane	0.459	0.423	0.393	0.388	0.396	0.373	0.405	7.68
42)	C	1,2-Dichloropropane		0.323	0.268	0.259	0.264	0.248	0.272	10.80

Average % RSD = 9.40056

(#) = Out of Range

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

		Compound	1	2	3	4	5	6	Avg	%RSD
43)		Dibromomethane	0.230	0.189	0.190	0.184	0.188	0.175	0.193	9.92
44)		1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003	9.91
45)		Bromodichloromethan	0.458	0.402	0.384	0.376	0.405	0.376	0.400	7.76
46)		2-Nitropropane		0.082	0.098	0.099	0.104	0.100	0.097	8.63
47)		2-Chloroethyl vinyl		0.190	0.189	0.179	0.180	0.166	0.181	5.32
48)		4-Methyl-2-pentanon		0.232	0.295	0.274	0.279	0.262	0.269	8.66
49)		cis-1,3-Dichloropro		0.479	0.451	0.437	0.458	0.423	0.450	4.76
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	S	Toluene-d8	1.264	1.252	1.284	1.267	1.294	1.286	1.274	1.26
52)	C	Toluene		1.441	1.290	1.235	1.272	1.173	1.282	7.74
53)		trans-1,3-Dichlorop	0.678	0.603	0.611	0.561	0.597	0.557	0.601	7.26
54)		1,1,2-Trichloroetha	0.324	0.290	0.287	0.270	0.275	0.262	0.285	7.75
55)		Tetrachloroethene		0.395	0.366	0.347	0.350	0.317	0.355	8.07
56)		2-hexanone		0.253	0.275	0.260	0.268	0.251	0.261	3.88
57)		1,3-Dichloropropane		0.613	0.581	0.541	0.555	0.514	0.561	6.74
58)		Dibromochloromethan	0.419	0.336	0.338	0.338	0.358	0.344	0.356	9.11
59)		1,2-Dibromoethane		0.334	0.330	0.333	0.331	0.317	0.329	2.13
60)		1-Chlorohexane		0.538	0.466	0.450	0.463	0.428	0.469	8.75
61)	P	Chlorobenzene		1.012	0.876	0.838	0.843	0.790	0.872	9.68
62)		1,1,1,2-Tetrachloro	0.415	0.361	0.366	0.333	0.341	0.321	0.356	9.40
63)	C	Ethylbenzene		1.651	1.522	1.428	1.460	1.340	1.480	7.82
64)		m,p-Xylene		1.354	1.259	1.150	1.182	1.075	1.204	8.85
65)		o-Xylene		1.435	1.378	1.250	1.272	1.183	1.303	7.80
66)		Styrene	1.142	1.007	0.975	0.896	0.927	0.873	0.970	10.07
67)	P	Bromoform	0.242	0.178	0.230	0.221	0.246	0.240	0.226	11.17
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)		Isopropylbenzene		2.602	2.485	2.371	2.479	2.360	2.459	4.03
70)		Cyclohexanone		0.025	0.031	0.026	0.030	0.029	0.028	8.64
71)	S	4-Bromofluorobenzen	1.109	1.091	1.076	1.120	1.113	1.156	1.111	2.44
72)		Bromobenzene		0.800	0.730	0.695	0.721	0.674	0.724	6.61
73)	P	1,1,2,2-Tetrachloro		0.806	0.832	0.760	0.788	0.761	0.789	3.90
74)		1,2,3-Trichloroprop		0.240	0.248	0.246	0.244	0.241	0.244	1.52
75)		trans-1,4-Dichloro-		0.311	0.310	0.313	0.323	0.314	0.314	1.64
76)		n-Propylbenzene		3.493	3.227	3.142	3.179	2.950	3.198	6.11
77)		2-Chlorotoluene		2.447	2.121	2.027	2.123	1.980	2.139	8.53
78)		4-Chlorotoluene		2.829	2.452	2.395	2.400	2.288	2.473	8.41
79)		1,3,5-Trimethylbenz		2.450	2.267	2.227	2.231	2.122	2.260	5.29
80)		sec-Butylbenzene	3.182	2.945	2.632	2.593	2.682	2.529	2.760	9.10
81)		1,3-Dichlorobenzene		1.476	1.314	1.283	1.332	1.246	1.330	6.62
82)		4-Isopropyltoluene	2.800	2.489	2.273	2.221	2.307	2.155	2.374	9.98
83)		1,4-Dichlorobenzene		1.463	1.332	1.294	1.356	1.261	1.341	5.74

Average % RSD = 8.20489

(#) = Out of Range

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

	Compound	1	2	3	4	5	6	Avg	%RSD
84)	tert-Butylbenzene		1.636	1.552	1.511	1.573	1.458	1.546	4.32
85)	n-Butylbenzene	2.710	2.389	2.297	2.267	2.309	2.205	2.363	7.63
86)	1,2-Dichlorobenzene		1.404	1.272	1.232	1.293	1.218	1.284	5.73
87)	1,2,4-Trimethylbenz		2.576	2.430	2.343	2.355	2.200	2.381	5.76
88)	1,2-Dibromo-3-Chlor		0.138	0.176	0.173	0.188	0.186	0.172	11.70
89)	1,2,4-Trichlorobenz	1.185	1.037	0.982	0.952	0.998	0.893	1.008	9.87
90)	Hexachlorobutadiene	0.455	0.432	0.407	0.402	0.383	0.371	0.409	7.64
91)	Naphthalene		2.243	2.332	2.170	2.249	2.141	2.227	3.36
92)	1,2,3-Trichlorobenz	1.099	0.991	0.894	0.892	0.907	0.854	0.939	9.61

Average % RSD = 8.11251

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040802\G0015809.D
Acq On : 8 Apr 2002 2:57 pm
Sample : ICV491-40
Misc :
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Multiple Level Calibration

KW
4-10-02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	115	0.00
2		Dichlorodifluoromethane	0.296	0.321	-8.4	121	0.00
3	P	Chloromethane	0.361	0.344	4.7	102	0.00
4	C	Vinyl Chloride	0.323	0.311	3.7	99	0.00
5		Bromomethane	0.213	0.177	16.9	93	0.00
6		Chloroethane	0.196	0.187	4.6	104	0.00
7		Trichlorofluoromethane	0.365	0.388	-6.3	114	-0.01
8		Acrolein	0.028	0.035	-25.0#	125	0.00
9	C	1,1-Dichloroethene	0.420	0.417	0.7	111	-0.01
10		Freon 113	0.246	0.253	-2.8	110	0.00
11		Acetone	0.091	0.081	11.0	97	0.00
12		Iodomethane	0.391	0.020	94.9#	6#	0.00
13		Carbon Disulfide	0.773	0.769	0.5	110	-0.01
14		Methyl acetate	0.210	0.202	3.8	116	-0.01
15		Methylene Chloride	0.423	0.370	12.5	121	0.00
16		Tert Butyl Alcohol	0.029	0.028	3.4	117	0.00
17		trans-1,2-Dichloroethene	0.409	0.401	2.0	120	0.00
18		Acrylonitrile	0.089	0.087	2.2	115	-0.01
19		Methyl Tert Butyl Ether	0.803	0.796	0.9	121	0.00
20		Hexane	0.348	0.342	1.7	125	0.00
21	P	1,1-Dichloroethane	0.487	0.478	1.8	123	0.00
22		Vinyl acetate	0.540	0.721	-33.5#	162	0.00
23		Di-isopropyl ether	0.978	0.980	-0.2	124	0.00
24		ETBE	0.930	0.070	92.5#	9#	0.00
25		2,2-Dichloropropane	0.293	0.322	-9.9	128	0.00
26		cis-1,2-Dichloroethene	0.268	0.283	-5.6	124	-0.01
27		2-Butanone	0.126	0.128	-1.6	118	0.00
28		Bromochloromethane	0.149	0.154	-3.4	121	0.00
29		Tetrahydrofuran	0.090	0.087	3.3	116	-0.01
30	C	Chloroform	0.501	0.513	-2.4	122	-0.01
31		1,1,1-Trichloroethane	0.411	0.432	-5.1	131	-0.01
32	S	Dibromofluoromethane	0.307	0.316	-2.9	119	0.00
33		Cyclohexane	0.440	0.483	-9.8	131	0.00
34		1,1-Dichloropropene	0.341	0.381	-11.7	136	0.00
35		Carbon Tetrachloride	0.351	0.389	-10.8	129	0.00
36	S	1,2-Dichloroethane-d4	0.417	0.427	-2.4	120	0.00
37		Benzene	0.907	0.936	-3.2	124	0.00
38		1,2-Dichloroethane	0.465	0.471	-1.3	120	0.00
39		TAME	0.813	0.062	92.4#	9#	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040802\G0015809.D
Acq On : 8 Apr 2002 2:57 pm
Sample : ICV491-40
Misc :
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.290	-4.7	125	0.00
41		Methylcyclohexane	0.405	0.453	-11.9	135	0.00
42	C	1,2-Dichloropropane	0.272	0.279	-2.6	124	0.00
43		Dibromomethane	0.193	0.181	6.2	113	0.00
44		1,4-Dioxane	0.003	0.003	0.0	131	0.00
45		Bromodichloromethane	0.400	0.397	0.8	122	0.00
46		2-Nitropropane	0.097	0.101	-4.1	117	0.00
47		2-Chloroethyl vinyl ether	0.181	0.185	-2.2	119	0.00
48		4-Methyl-2-pentanone	0.269	0.277	-3.0	116	0.00
49		cis-1,3-Dichloropropene	0.450	0.449	0.2	119	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	122	0.00
51	S	Toluene-d8	1.274	1.228	3.6	119	0.00
52	C	Toluene	1.282	1.262	1.6	125	0.00
53		trans-1,3-Dichloropropene	0.601	0.537	10.6	117	0.00
54		1,1,2-Trichloroethane	0.285	0.261	8.4	118	0.00
55		Tetrachloroethene	0.355	0.366	-3.1	129	0.00
56		2-hexanone	0.261	0.244	6.5	115	0.00
57		1,3-Dichloropropane	0.561	0.529	5.7	120	0.00
58		Dibromochloromethane	0.356	0.342	3.9	124	-0.01
59		1,2-Dibromoethane	0.329	0.303	7.9	111	0.00
60		1-Chlorohexane	0.469	0.507	-8.1	138	0.00
61	P	Chlorobenzene	0.872	0.861	1.3	126	0.00
62		1,1,1,2-Tetrachloroethane	0.356	0.338	5.1	124	0.00
63	C	Ethylbenzene	1.480	1.461	1.3	125	0.00
64		m,p-Xylene	1.204	1.187	1.4	126	0.00
65		o-Xylene	1.303	1.259	3.4	123	0.00
66		Styrene	0.970	0.933	3.8	127	0.00
67	P	Bromoform	0.226	0.229	-1.3	127	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
69		Isopropylbenzene	2.459	2.646	-7.6	130	0.00
70		Cyclohexanone	0.028	0.026	7.1	116	0.00
71	S	4-Bromofluorobenzene	1.111	1.140	-2.6	119	0.00
72		Bromobenzene	0.724	0.711	1.8	119	0.00
73	P	1,1,2,2-Tetrachloroethane	0.789	0.753	4.6	116	0.00
74		1,2,3-Trichloropropane	0.244	0.248	-1.6	118	0.00
75		trans-1,4-Dichloro-2-Butene	0.314	0.026	91.7#	10#	0.00
76		n-Propylbenzene	3.198	3.356	-4.9	125	0.00

00396

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040802\G0015809.D
Acq On : 8 Apr 2002 2:57 pm
Sample : ICV491-40
Misc :
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	2.156	-0.8	124	0.00
78	4-Chlorotoluene	2.473	2.462	0.4	120	0.00
79	1,3,5-Trimethylbenzene	2.260	2.326	-2.9	122	0.00
80	sec-Butylbenzene	2.760	2.836	-2.8	128	0.00
81	1,3-Dichlorobenzene	1.330	1.340	-0.8	122	0.00
82	4-Isopropyltoluene	2.374	2.430	-2.4	128	0.00
83	1,4-Dichlorobenzene	1.341	1.331	0.7	120	0.00
84	tert-Butylbenzene	1.546	1.627	-5.2	126	0.00
85	n-Butylbenzene	2.363	2.393	-1.3	123	0.00
86	1,2-Dichlorobenzene	1.284	1.222	4.8	116	0.00
87	1,2,4-Trimethylbenzene	2.381	2.482	-4.2	124	0.00
88	1,2-Dibromo-3-Chloropropane	0.172	0.132	23.3#	89	0.00
89	1,2,4-Trichlorobenzene	1.008	0.808	19.8	99	0.00
90	Hexachlorobutadiene	0.409	0.354	13.4	103	0.00
91	Naphthalene	2.227	1.765	20.7#	95	0.00
92	1,2,3-Trichlorobenzene	0.939	0.743	20.9#	97	0.00

Average % D = 9.65409

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument Performance Check (BFB)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VG496-BFB	**Injection Date:**	04/12/02
Lab File ID:	G0015893.D	**Injection Time:**	08:58
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	33429	22.1		Pass
75	30.0 - 60.0% of mass 95	86875	57.4		Pass
95	Base peak, 100% relative abundance	151339	100.0		Pass
96	5.0 - 9.0% of mass 95	11236	7.4		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	103613	68.5		Pass
175	5.0 - 9.0% of mass 174	8037	5.3	(7.8) [a]	Pass
176	95.0 - 101.0% of mass 174	103352	68.3	(99.7) [a]	Pass
177	5.0 - 9.0% of mass 176	7432	4.9	(7.2) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG496-CC491	G0015895.D	04/12/02	09:50	00:52	Continuing cal 70
VG496-BS	G0015896.D	04/12/02	10:21	01:23	Blank Spike
VG496-MB	G0015897.D	04/12/02	10:52	01:54	Method Blank
ZZZZZZ	G0015898.D	04/12/02	11:25	02:27	(unrelated sample)
ZZZZZZ	G0015902.D	04/12/02	13:29	04:31	(unrelated sample)
F12840-1	G0015903.D	04/12/02	14:00	05:02	(used for QC only; not part of job F12863)
F12840-1MS	G0015904.D	04/12/02	14:31	05:33	Matrix Spike
F12840-1MSD	G0015905.D	04/12/02	15:02	06:04	Matrix Spike Duplicate
ZZZZZZ	G0015906.D	04/12/02	15:33	06:35	(unrelated sample)
ZZZZZZ	G0015909.D	04/12/02	17:06	08:08	(unrelated sample)
F12863-2	G0015911.D	04/12/02	18:08	09:10	13GLM06I01
F12863-3	G0015912.D	04/12/02	18:39	09:41	13GLM06I01D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041202\G0015895.D
Acq On : 12 Apr 2002 9:50 am
Sample : CC491-70
Misc : ms1450,vg496,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

KW
4-15-02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.01
2		Dichlorodifluoromethane	0.296	0.263	11.1	98	0.00
3	P	Chloromethane	0.361	0.307	15.0	104	0.01
4	C	Vinyl Chloride	0.323	0.288	10.8	108	0.01
5		Bromomethane	0.213	0.182	14.6	114	0.01
6		Chloroethane	0.196	0.176	10.2	112	0.02
7		Trichlorofluoromethane	0.365	0.381	-4.4	119	-0.03
8		Acrolein	0.028	0.025	10.7	102	0.00
9	C	1,1-Dichloroethene	0.420	0.363	13.6	105	0.00
10		Freon 113	0.246	0.214	13.0	102	0.01
11		Acetone	0.091	0.083	8.8	108	0.00
12		Iodomethane	0.391	0.316	19.2	95	0.00
13		Carbon Disulfide	0.773	0.635	17.9	100	0.00
14		Methyl acetate	0.210	0.181	13.8	98	0.00
15		Methylene Chloride	0.389	0.334	14.1	102	0.01
16		Tert Butyl Alcohol	0.029	0.025	13.8	99	0.00
17		trans-1,2-Dichloroethene	0.409	0.362	11.5	104	0.01
18		Acrylonitrile	0.089	0.083	6.7	107	0.00
19		Methyl Tert Butyl Ether	0.803	0.710	11.6	101	0.00
20		Hexane	0.348	0.319	8.3	104	0.01
21	P	1,1-Dichloroethane	0.487	0.437	10.3	103	0.01
22		Vinyl acetate	0.540	0.487	9.8	103	0.01
23		Di-isopropyl ether	0.978	0.876	10.4	100	0.01
24		ETBE	0.930	0.810	12.9	96	0.01
25		2,2-Dichloropropane	0.293	0.282	3.8	108	0.00
26		cis-1,2-Dichloroethene	0.268	0.240	10.4	97	0.00
27		2-Butanone	0.126	0.116	7.9	99	0.01
28		Bromochloromethane	0.149	0.133	10.7	99	0.01
29		Tetrahydrofuran	0.090	0.075	16.7	92	0.01
30	C	Chloroform	0.501	0.466	7.0	102	0.00
31		1,1,1-Trichloroethane	0.411	0.375	8.8	104	0.01
32	S	Dibromofluoromethane	0.307	0.307	0.0	107	0.01
33		Cyclohexane	0.440	0.400	9.1	98	0.00
34		1,1-Dichloropropene	0.341	0.329	3.5	104	0.01
35		Carbon Tetrachloride	0.351	0.337	4.0	102	0.01
36	S	1,2-Dichloroethane-d4	0.417	0.445	-6.7	116	0.01
37		Benzene	0.907	0.829	8.6	101	0.01
38		1,2-Dichloroethane	0.465	0.446	4.1	106	0.02
39		TAME	0.813	0.728	10.5	98	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041202\G0015895.D
Acq On : 12 Apr 2002 9:50 am
Sample : CC491-70
Misc : ms1450,vg496,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.263	5.1	103	0.01
41		Methylcyclohexane	0.405	0.392	3.2	107	0.01
42	C	1,2-Dichloropropane	0.272	0.257	5.5	105	0.01
43		Dibromomethane	0.193	0.176	8.8	101	0.01
44		1,4-Dioxane	0.003	0.003	0.0	103	0.01
45		Bromodichloromethane	0.400	0.392	2.0	105	0.00
46		2-Nitropropane	0.097	0.097	0.0	101	0.01
47		2-Chloroethyl vinyl ether	0.181	0.168	7.2	101	0.01
48		4-Methyl-2-pentanone	0.269	0.255	5.2	99	0.02
49		cis-1,3-Dichloropropene	0.450	0.443	1.6	105	0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.02
51	S	Toluene-d8	1.274	1.265	0.7	107	0.02
52	C	Toluene	1.282	1.174	8.4	101	0.02
53		trans-1,3-Dichloropropene	0.601	0.576	4.2	106	0.01
54		1,1,2-Trichloroethane	0.285	0.256	10.2	103	0.01
55		Tetrachloroethene	0.355	0.317	10.7	100	0.02
56		2-hexanone	0.261	0.247	5.4	101	0.02
57		1,3-Dichloropropane	0.561	0.524	6.6	104	0.01
58		Dibromochloromethane	0.356	0.345	3.1	106	0.01
59		1,2-Dibromoethane	0.329	0.317	3.6	105	0.01
60		1-Chlorohexane	0.469	0.451	3.8	107	0.01
61	P	Chlorobenzene	0.872	0.800	8.3	104	0.01
62		1,1,1,2-Tetrachloroethane	0.356	0.327	8.1	105	0.01
63	C	Ethylbenzene	1.480	1.413	4.5	106	0.02
64		m,p-Xylene	1.204	1.138	5.5	106	0.02
65		o-Xylene	1.303	1.220	6.4	105	0.02
66		Styrene	0.970	0.873	10.0	104	0.01
67	P	Bromoform	0.226	0.229	-1.3	102	0.01
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.02
69		Isopropylbenzene	2.459	2.405	2.2	107	0.02
70		Cyclohexanone	0.028	0.026	7.1	95	0.00
71	S	4-Bromofluorobenzene	1.111	1.113	-0.2	110	0.02
72		Bromobenzene	0.724	0.631	12.8	96	0.02
73	P	1,1,2,2-Tetrachloroethane	0.789	0.728	7.7	102	0.01
74		1,2,3-Trichloropropane	0.244	0.233	4.5	105	0.01
75		trans-1,4-Dichloro-2-Butene	0.314	0.291	7.3	99	0.01
76		n-Propylbenzene	3.198	3.050	4.6	105	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041202\G0015895.D
Acq On : 12 Apr 2002 9:50 am
Sample : CC491-70
Misc : ms1450,vg496,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	1.985	7.2	103	0.01
78	4-Chlorotoluene	2.473	2.325	6.0	106	0.02
79	1,3,5-Trimethylbenzene	2.260	2.158	4.5	106	0.01
80	sec-Butylbenzene	2.760	2.602	5.7	107	0.01
81	1,3-Dichlorobenzene	1.330	1.161	12.7	96	0.02
82	4-Isopropyltoluene	2.374	2.124	10.5	101	0.02
83	1,4-Dichlorobenzene	1.341	1.193	11.0	97	0.01
84	tert-Butylbenzene	1.546	1.510	2.3	105	0.02
85	n-Butylbenzene	2.363	2.247	4.9	107	0.02
86	1,2-Dichlorobenzene	1.284	1.118	12.9	95	0.02
87	1,2,4-Trimethylbenzene	2.381	2.211	7.1	103	0.01
88	1,2-Dibromo-3-Chloropropane	0.172	0.168	2.3	98	0.01
89	1,2,4-Trichlorobenzene	1.008	0.828	17.9	91	0.01
90	Hexachlorobutadiene	0.409	0.328	19.8	94	0.01
91	Naphthalene	2.227	1.909	14.3	93	0.02
92	1,2,3-Trichlorobenzene	0.939	0.659	29.8#	80	0.02

Average % D = 8.30604

00406

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG496-MB	G0015897.D	1	04/12/02	KW	n/a	n/a	VG496

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-2, F12863-3

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG496-MB	G0015897.D	1	04/12/02	KW	n/a	n/a	VG496

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-2, F12863-3

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	106%	80-120%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG496-BS	G0015896.D	1	04/12/02	KW	n/a	n/a	VG496

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-2, F12863-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	124	99	67-125
71-43-2	Benzene	25	26.6	106	75-125
75-27-4	Bromodichloromethane	25	26.5	106	75-125
75-25-2	Bromoform	25	25.1	100	72-125
108-90-7	Chlorobenzene	25	25.7	103	75-125
75-00-3	Chloroethane	25	25.4	102	58-136
67-66-3	Chloroform	25	27.4	110	75-125
75-15-0	Carbon disulfide	125	134	107	48-142
56-23-5	Carbon tetrachloride	25	29.8	119	75-136
75-34-3	1,1-Dichloroethane	25	27.3	109	75-125
75-35-4	1,1-Dichloroethylene	25	25.8	103	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	20.8	83	64-125
107-06-2	1,2-Dichloroethane	25	27.0	108	75-125
78-87-5	1,2-Dichloropropane	25	27.7	111	75-125
124-48-1	Dibromochloromethane	25	25.7	103	75-125
75-71-8	Dichlorodifluoromethane	25	25.5	102	48-171
156-59-2	cis-1,2-Dichloroethylene	25	27.6	110	75-129
10061-01-5	cis-1,3-Dichloropropene	25	26.1	104	75-125
541-73-1	m-Dichlorobenzene	25	24.8	99	75-125
95-50-1	o-Dichlorobenzene	25	23.5	94	75-125
106-46-7	p-Dichlorobenzene	25	24.7	99	75-125
156-60-5	trans-1,2-Dichloroethylene	25	26.8	107	73-125
540-59-0	1,2-Dichloroethene (total)	50	54.4	109	73-129
10061-02-6	trans-1,3-Dichloropropene	25	24.0	96	75-125
100-41-4	Ethylbenzene	25	26.8	107	68-135
76-13-1	Freon 113	25	27.9	112	75-125
591-78-6	2-Hexanone	125	121	97	68-125
98-82-8	Isopropylbenzene	25	27.7	111	75-125
108-10-1	4-Methyl-2-pentanone	125	127	102	75-125
74-83-9	Methyl bromide	25	24.8	99	59-146
74-87-3	Methyl chloride	25	24.4	98	50-142
75-09-2	Methylene chloride	25	26.3	105	69-125
78-93-3	Methyl ethyl ketone	125	127	102	70-125
1634-04-4	Methyl Tert Butyl Ether	25	26.0	104	75-125
100-42-5	Styrene	25	25.1	100	75-125
71-55-6	1,1,1-Trichloroethane	25	28.9	116	75-132

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG496-BS	G0015896.D	1	04/12/02	KW	n/a	n/a	VG496

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-2, F12863-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	75-125
79-00-5	1,1,2-Trichloroethane	25	24.4	98	75-125
127-18-4	Tetrachloroethylene	25	26.4	106	75-126
108-88-3	Toluene	25	26.9	108	75-125
79-01-6	Trichloroethylene	25	27.0	108	75-125
75-69-4	Trichlorofluoromethane	25	28.7	115	55-162
75-01-4	Vinyl chloride	25	25.5	102	60-147
1330-20-7	Xylene (total)	75	81.6	109	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	107%	80-120%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	100%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12840-1MS	G0015904.D	1	04/12/02	KW	n/a	n/a	VG496
F12840-1MSD	G0015905.D	1	04/12/02	KW	n/a	n/a	VG496
F12840-1	G0015903.D	1	04/12/02	KW	n/a	n/a	VG496

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-2, F12863-3

CAS No.	Compound	F12840-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	150	120	146	117	3	61-125/15
71-43-2	Benzene	ND		25	25.3	101	24.6	98	3	75-125/15
75-27-4	Bromodichloromethane	8.0		25	33.1	100	32.8	99	1	75-125/15
75-25-2	Bromoform	2.5		25	27.5	100	26.9	98	2	66-125/15
108-90-7	Chlorobenzene	ND		25	25.6	102	24.6	98	4	75-125/15
75-00-3	Chloroethane	ND		25	26.8	107	26.7	107	0	53-125/15
67-66-3	Chloroform	13.9		25	39.8	104	37.6	95	6	75-125/15
75-15-0	Carbon disulfide	ND		125	152	122	143	114	6	51-138/15
56-23-5	Carbon tetrachloride	ND		25	29.5	118	28.1	112	5	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	30.8	123	30.5	122	1	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	30.4	122	29.6	118	3	66-140/15
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	23.2	93	25.0	100	7	57-125/15
107-06-2	1,2-Dichloroethane	ND		25	28.6	114	26.8	107	6	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	26.8	107	25.7	103	4	75-125/15
124-48-1	Dibromochloromethane	7.4		25	33.7	105	32.8	102	3	75-125/15
75-71-8	Dichlorodifluoromethane	ND		25	27.5	110	28.8	115	5	45-182/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.7	103	26.0	104	1	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.9	100	24.1	96	3	71-125/15
541-73-1	m-Dichlorobenzene	ND		25	24.5	98	23.6	94	4	75-125/15
95-50-1	o-Dichlorobenzene	ND		25	24.3	97	23.6	94	3	75-125/15
106-46-7	p-Dichlorobenzene	ND		25	24.6	98	23.2	93	6	75-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	31.3	125	29.7	119	5	73-125/15
540-59-0	1,2-Dichloroethene (total)	ND		50	57.0	114	55.7	111	2	73-136/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.2	97	22.9	92	6	62-125/15
100-41-4	Ethylbenzene	ND		25	26.5	106	25.3	101	5	75-125/15
76-13-1	Freon 113	ND		25	32.3	129	30.4	122	6	69-131/15
591-78-6	2-Hexanone	ND		125	126	101	121	97	4	71-125/15
98-82-8	Isopropylbenzene	ND		25	27.9	112	25.6	102	9	74-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	124	99	130	104	5	75-125/15
74-83-9	Methyl bromide	ND		25	25.6	102	25.0	100	2	67-146/15
74-87-3	Methyl chloride	ND		25	27.6	110	27.4	110	1	47-160/15
75-09-2	Methylene chloride	ND		25	30.0	120	29.3	117	2	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	120	96	124	99	3	70-125/15
1634-04-4	Methyl Tert Butyl Ether	ND		25	29.3	117	29.9	120	2	75-125/15
100-42-5	Styrene	ND		25	25.1	100	23.1	92	8	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	28.9	116	27.0	108	7	75-131/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12840-1MS	G0015904.D	1	04/12/02	KW	n/a	n/a	VG496
F12840-1MSD	G0015905.D	1	04/12/02	KW	n/a	n/a	VG496
F12840-1	G0015903.D	1	04/12/02	KW	n/a	n/a	VG496

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-2, F12863-3

CAS No.	Compound	F12840-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.6	98	24.3	97	1	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	24.6	98	23.6	94	4	75-125/15
127-18-4	Tetrachloroethylene	ND		25	26.1	104	23.9	96	9	75-125/15
108-88-3	Toluene	ND		25	26.6	106	25.0	100	6	75-125/15
79-01-6	Trichloroethylene	ND		25	26.6	106	26.0	104	2	75-125/15
75-69-4	Trichlorofluoromethane	ND		25	31.6	126	31.3	125	1	60-139/30
75-01-4	Vinyl chloride	ND		25	28.4	114	28.6	114	1	52-169/15
1330-20-7	Xylene (total)	ND		75	81.8	109	78.0	104	5	75-125/15

CAS No.	Surrogate Recoveries	MS	MSD	F12840-1	Limits
1868-53-7	Dibromofluoromethane	102%	103%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	118%	110%	111%	80-120%
2037-26-5	Toluene-D8	104%	101%	103%	80-120%
460-00-4	4-Bromofluorobenzene	101%	100%	101%	80-120%

Instrument Performance Check (BFB)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VG497-BFB	**Injection Date:**	04/15/02
Lab File ID:	G0015914.D	**Injection Time:**	10:51
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	29864	24.7	Pass
75	30.0 - 60.0% of mass 95	71912	59.5	Pass
95	Base peak, 100% relative abundance	120960	100.0	Pass
96	5.0 - 9.0% of mass 95	9408	7.8	Pass
173	Less than 2.0% of mass 174	1769	1.5 (1.9) [a]	Pass
174	50.0 - 100.0% of mass 95	92856	76.8	Pass
175	5.0 - 9.0% of mass 174	8049	6.7 (8.7) [a]	Pass
176	95.0 - 101.0% of mass 174	89000	73.6 (95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	6847	5.7 (7.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG497-CC491	G0015916.D	04/15/02	11:42	00:51	Continuing cal 40
VG497-BS	G0015917.D	04/15/02	12:23	01:32	Blank Spike
VG497-MB	G0015918.D	04/15/02	12:54	02:03	Method Blank
ZZZZZZ	G0015919.D	04/15/02	13:26	02:35	(unrelated sample)
ZZZZZZ	G0015920.D	04/15/02	13:57	03:06	(unrelated sample)
ZZZZZZ	G0015921.D	04/15/02	14:28	03:37	(unrelated sample)
F12863-1	G0015922.D	04/15/02	14:59	04:08	13GLM06S01
F12863-4	G0015923.D	04/15/02	15:30	04:39	13GLM015S01
F12863-4MS	G0015924.D	04/15/02	16:01	05:10	Matrix Spike
F12863-4MSD	G0015925.D	04/15/02	16:33	05:42	Matrix Spike Duplicate
F12863-5	G0015926.D	04/15/02	17:04	06:13	13GLM015I01
F12863-6	G0015927.D	04/15/02	17:35	06:44	13GLM016S01
F12863-7	G0015928.D	04/15/02	18:06	07:15	13GLM04I01
F12863-8	G0015929.D	04/15/02	18:37	07:46	13GLM04S01
F12863-9	G0015930.D	04/15/02	19:08	08:17	13GLM012I01
F12863-10	G0015931.D	04/15/02	19:39	08:48	13GLM014I01
F12863-11	G0015932.D	04/15/02	20:11	09:20	13GLM05I01
F12863-12	G0015933.D	04/15/02	20:42	09:51	13GLM05S01
F12863-13	G0015934.D	04/15/02	21:13	10:22	13GLM011I01
F12863-14	G0015935.D	04/15/02	21:44	10:53	13GLM011S01
F12863-15	G0015936.D	04/15/02	22:15	11:24	13GLM13S01
F12863-16	G0015937.D	04/15/02	22:47	11:56	13GLM13I01

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041502\G0015916.D
Acq On : 15 Apr 2002 11:42 am
Sample : CC491-40
Misc : ms1454,vg497,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

KW
4-15-02

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.01
2		Dichlorodifluoromethane	0.296	0.313	-5.7	97	0.00
3	P	Chloromethane	0.361	0.356	1.4	87	0.01
4	C	Vinyl Chloride	0.323	0.305	5.6	80	0.01
5		Bromomethane	0.213	0.218	-2.3	94	0.01
6		Chloroethane	0.196	0.196	0.0	90	0.01
7		Trichlorofluoromethane	0.365	0.430	-17.8	104	0.02
8		Acrolein	0.028	0.023	17.9	68	0.00
9	C	1,1-Dichloroethene	0.420	0.464	-10.5	101	0.00
10		Freon 113	0.246	0.263	-6.9	94	0.01
11		Acetone	0.091	0.105	-15.4	103	0.01
12		Iodomethane	0.391	0.435	-11.3	100	0.01
13		Carbon Disulfide	0.773	0.820	-6.1	96	0.00
14		Methyl acetate	0.210	0.221	-5.2	105	0.00
15		Methylene Chloride	0.389	0.422	-8.5	113	0.01
16		Tert Butyl Alcohol	0.029	0.029	0.0	99	0.01
17		trans-1,2-Dichloroethene	0.409	0.459	-12.2	113	0.01
18		Acrylonitrile	0.089	0.082	7.9	90	0.00
19		Methyl Tert Butyl Ether	0.803	0.831	-3.5	104	0.00
20		Hexane	0.348	0.392	-12.6	118	0.01
21	P	1,1-Dichloroethane	0.487	0.527	-8.2	112	0.01
22		Vinyl acetate	0.540	0.558	-3.3	103	0.01
23		Di-isopropyl ether	0.978	1.040	-6.3	108	0.01
24		ETBE	0.930	0.978	-5.2	104	0.01
25		2,2-Dichloropropane	0.293	0.344	-17.4	113	0.00
26		cis-1,2-Dichloroethene	0.268	0.304	-13.4	109	0.01
27		2-Butanone	0.126	0.138	-9.5	105	0.01
28		Bromochloromethane	0.149	0.162	-8.7	105	0.02
29		Tetrahydrofuran	0.090	0.091	-1.1	100	0.01
30	C	Chloroform	0.501	0.552	-10.2	108	0.01
31		1,1,1-Trichloroethane	0.411	0.456	-10.9	114	0.01
32	S	Dibromofluoromethane	0.307	0.311	-1.3	96	0.01
33		Cyclohexane	0.440	0.475	-8.0	106	0.01
34		1,1-Dichloropropene	0.341	0.403	-18.2	118	0.01
35		Carbon Tetrachloride	0.351	0.404	-15.1	110	0.02
36	S	1,2-Dichloroethane-d4	0.417	0.419	-0.5	97	0.01
37		Benzene	0.907	1.012	-11.6	111	0.02
38		1,2-Dichloroethane	0.465	0.510	-9.7	107	0.02
39		TAME	0.813	0.850	-4.6	102	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041502\G0015916.D
Acq On : 15 Apr 2002 11:42 am
Sample : CC491-40
Misc : ms1454,vg497,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.296	-6.9	105	0.01
41		Methylcyclohexane	0.405	0.379	6.4	93	0.01
42	C	1,2-Dichloropropane	0.272	0.255	6.3	94	0.01
43		Dibromomethane	0.193	0.168	13.0	87	0.01
44		1,4-Dioxane	0.003	0.002	33.3#	85	0.00
45		Bromodichloromethane	0.400	0.361	9.8	91	0.01
46		2-Nitropropane	0.097	0.084	13.4	80	0.02
47		2-Chloroethyl vinyl ether	0.181	0.160	11.6	85	0.01
48		4-Methyl-2-pentanone	0.269	0.241	10.4	84	0.01
49		cis-1,3-Dichloropropene	0.450	0.428	4.9	93	0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.02
51	S	Toluene-d8	1.274	1.251	1.8	82	0.01
52	C	Toluene	1.282	1.372	-7.0	92	0.02
53		trans-1,3-Dichloropropene	0.601	0.615	-2.3	91	0.01
54		1,1,2-Trichloroethane	0.285	0.281	1.4	86	0.02
55		Tetrachloroethene	0.355	0.387	-9.0	92	0.02
56		2-hexanone	0.261	0.268	-2.7	85	0.02
57		1,3-Dichloropropane	0.561	0.583	-3.9	89	0.01
58		Dibromochloromethane	0.356	0.378	-6.2	92	0.01
59		1,2-Dibromoethane	0.329	0.354	-7.6	88	0.02
60		1-Chlorohexane	0.469	0.512	-9.2	94	0.01
61	P	Chlorobenzene	0.872	0.930	-6.7	92	0.01
62		1,1,1,2-Tetrachloroethane	0.356	0.383	-7.6	95	0.01
63	C	Ethylbenzene	1.480	1.632	-10.3	94	0.02
64		m,p-Xylene	1.204	1.339	-11.2	96	0.02
65		o-Xylene	1.303	1.383	-6.1	91	0.02
66		Styrene	0.970	1.025	-5.7	94	0.01
67	P	Bromoform	0.226	0.257	-13.7	96	0.01
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.02
69		Isopropylbenzene	2.459	2.658	-8.1	95	0.02
70		Cyclohexanone	0.028	0.022	21.4#	72	0.00
71	S	4-Bromofluorobenzene	1.111	1.054	5.1	80	0.02
72		Bromobenzene	0.724	0.755	-4.3	92	0.02
73	P	1,1,2,2-Tetrachloroethane	0.789	0.799	-1.3	89	0.01
74		1,2,3-Trichloropropane	0.244	0.244	0.0	84	0.02
75		trans-1,4-Dichloro-2-Butene	0.314	0.284	9.6	77	0.01
76		n-Propylbenzene	3.198	3.425	-7.1	93	0.02

00415

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041502\G0015916.D
Acq On : 15 Apr 2002 11:42 am
Sample : CC491-40
Misc : ms1454,vg497,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	2.225	-4.0	93	0.02
78	4-Chlorotoluene	2.473	2.604	-5.3	93	0.02
79	1,3,5-Trimethylbenzene	2.260	2.501	-10.7	96	0.02
80	sec-Butylbenzene	2.760	2.918	-5.7	96	0.01
81	1,3-Dichlorobenzene	1.330	1.408	-5.9	93	0.02
82	4-Isopropyltoluene	2.374	2.458	-3.5	94	0.02
83	1,4-Dichlorobenzene	1.341	1.403	-4.6	92	0.01
84	tert-Butylbenzene	1.546	1.677	-8.5	94	0.02
85	n-Butylbenzene	2.363	2.531	-7.1	95	0.02
86	1,2-Dichlorobenzene	1.284	1.364	-6.2	94	0.03
87	1,2,4-Trimethylbenzene	2.381	2.549	-7.1	93	0.02
88	1,2-Dibromo-3-Chloropropane	0.172	0.173	-0.6	85	0.01
89	1,2,4-Trichlorobenzene	1.008	1.056	-4.8	94	0.01
90	Hexachlorobutadiene	0.409	0.415	-1.5	88	0.01
91	Naphthalene	2.227	2.334	-4.8	92	0.01
92	1,2,3-Trichlorobenzene	0.939	0.948	-1.0	90	0.02

Average % D = 7.64297

00416

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-MB	G0015918.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-1, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-MB	G0015918.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-1, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-BS	G0015917.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-1, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	119	95	67-125
71-43-2	Benzene	25	25.2	101	75-125
75-27-4	Bromodichloromethane	25	24.1	96	75-125
75-25-2	Bromoform	25	26.1	104	72-125
108-90-7	Chlorobenzene	25	25.3	101	75-125
75-00-3	Chloroethane	25	23.5	94	58-136
67-66-3	Chloroform	25	25.4	102	75-125
75-15-0	Carbon disulfide	125	128	102	48-142
56-23-5	Carbon tetrachloride	25	27.2	109	75-136
75-34-3	1,1-Dichloroethane	25	24.3	97	75-125
75-35-4	1,1-Dichloroethylene	25	24.2	97	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	22.2	89	64-125
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
78-87-5	1,2-Dichloropropane	25	26.4	106	75-125
124-48-1	Dibromochloromethane	25	30.3	121	75-125
75-71-8	Dichlorodifluoromethane	25	26.5	106	48-171
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	75-129
10061-01-5	cis-1,3-Dichloropropene	25	23.5	94	75-125
541-73-1	m-Dichlorobenzene	25	23.4	94	75-125
95-50-1	o-Dichlorobenzene	25	23.9	96	75-125
106-46-7	p-Dichlorobenzene	25	24.6	98	75-125
156-60-5	trans-1,2-Dichloroethylene	25	24.2	97	73-125
540-59-0	1,2-Dichloroethene (total)	50	50.7	101	73-129
10061-02-6	trans-1,3-Dichloropropene	25	27.9	112	75-125
100-41-4	Ethylbenzene	25	25.6	102	68-135
76-13-1	Freon 113	25	25.3	101	75-125
591-78-6	2-Hexanone	125	142	114	68-125
98-82-8	Isopropylbenzene	25	26.1	104	75-125
108-10-1	4-Methyl-2-pentanone	125	123	98	75-125
74-83-9	Methyl bromide	25	21.0	84	59-146
74-87-3	Methyl chloride	25	23.5	94	50-142
75-09-2	Methylene chloride	25	24.5	98	69-125
78-93-3	Methyl ethyl ketone	125	119	95	70-125
1634-04-4	Methyl Tert Butyl Ether	25	23.9	96	75-125
100-42-5	Styrene	25	25.1	100	75-125
71-55-6	1,1,1-Trichloroethane	25	25.7	103	75-132

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG497-BS	G0015917.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-1, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	23.1	92	75-125
79-00-5	1,1,2-Trichloroethane	25	27.3	109	75-125
127-18-4	Tetrachloroethylene	25	31.9	128*	75-126
108-88-3	Toluene	25	30.9	124	75-125
79-01-6	Trichloroethylene	25	26.2	105	75-125
75-69-4	Trichlorofluoromethane	25	28.1	112	55-162
75-01-4	Vinyl chloride	25	23.0	92	60-147
1330-20-7	Xylene (total)	75	78.1	104	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	80-120%
2037-26-5	Toluene-D8	119%	80-120%
460-00-4	4-Bromofluorobenzene	93%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-4MS	G0015924.D	1	04/15/02	KW	n/a	n/a	VG497
F12863-4MSD	G0015925.D	1	04/15/02	KW	n/a	n/a	VG497
F12863-4	G0015923.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-1, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16

CAS No.	Compound	F12863-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.1		125	121	87	120	86	1	61-125/15
71-43-2	Benzene	ND		25	25.4	102	24.7	99	3	75-125/15
75-27-4	Bromodichloromethane	ND		25	24.3	97	23.9	96	2	75-125/15
75-25-2	Bromoform	ND		25	24.4	98	24.9	100	2	66-125/15
108-90-7	Chlorobenzene	ND		25	24.4	98	24.9	100	2	75-125/15
75-00-3	Chloroethane	ND		25	23.3	93	22.3	89	4	53-125/15
67-66-3	Chloroform	4.0		25	32.3	113	32.4	114	0	75-125/15
75-15-0	Carbon disulfide	ND		125	128	102	124	99	3	51-138/15
56-23-5	Carbon tetrachloride	ND		25	27.5	110	27.3	109	1	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	23.5	94	23.9	96	2	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	23.7	95	23.7	95	0	66-140/15
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	24.5	98	24.0	96	2	57-125/15
107-06-2	1,2-Dichloroethane	ND		25	25.3	101	24.2	97	4	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	26.1	104	25.7	103	2	75-125/15
124-48-1	Dibromochloromethane	ND		25	24.5	98	25.3	101	3	75-125/15
75-71-8	Dichlorodifluoromethane	ND		25	26.9	108	27.3	109	1	45-182/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.2	101	25.8	103	2	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.6	90	22.7	91	0	71-125/15
541-73-1	m-Dichlorobenzene	ND		25	23.6	94	23.6	94	0	75-125/15
95-50-1	o-Dichlorobenzene	ND		25	24.2	97	23.1	92	5	75-125/15
106-46-7	p-Dichlorobenzene	ND		25	24.4	98	24.4	98	0	75-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.1	96	23.7	95	2	73-125/15
540-59-0	1,2-Dichloroethene (total)	ND		50	49.3	99	49.4	99	0	73-136/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	21.2	85	20.5	82	3	62-125/15
100-41-4	Ethylbenzene	ND		25	24.9	100	25.8	103	4	75-125/15
76-13-1	Freon 113	ND		25	25.1	100	24.4	98	3	69-131/15
591-78-6	2-Hexanone	ND		125	125	100	124	99	1	71-125/15
98-82-8	Isopropylbenzene	ND		25	25.3	101	25.2	101	0	74-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	124	99	130	104	5	75-125/15
74-83-9	Methyl bromide	ND		25	20.7	83	20.3	81	2	67-146/15
74-87-3	Methyl chloride	ND		25	24.0	96	23.2	93	3	47-160/15
75-09-2	Methylene chloride	ND		25	24.3	97	23.5	94	3	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	122	98	127	102	4	70-125/15
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.5	94	23.7	95	1	75-125/15
100-42-5	Styrene	ND		25	24.0	96	24.2	97	1	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	25.9	104	25.6	102	1	75-131/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-4MS	G0015924.D	1	04/15/02	KW	n/a	n/a	VG497
F12863-4MSD	G0015925.D	1	04/15/02	KW	n/a	n/a	VG497
F12863-4	G0015923.D	1	04/15/02	KW	n/a	n/a	VG497

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-1, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16

CAS No.	Compound	F12863-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.1	92	23.3	93	1	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	23.5	94	24.9	100	6	75-125/15
127-18-4	Tetrachloroethylene	ND		25	25.4	102	25.6	102	1	75-125/15
108-88-3	Toluene	ND		25	25.3	101	25.0	100	1	75-125/15
79-01-6	Trichloroethylene	ND		25	25.4	102	24.9	100	2	75-125/15
75-69-4	Trichlorofluoromethane	ND		25	26.7	107	27.3	109	2	60-139/30
75-01-4	Vinyl chloride	ND		25	22.0	88	23.6	94	7	52-169/15
1330-20-7	Xylene (total)	ND		75	75.7	101	77.7	104	3	75-125/15

CAS No.	Surrogate Recoveries	MS	MSD	F12863-4	Limits
1868-53-7	Dibromofluoromethane	99%	102%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	103%	80-120%
2037-26-5	Toluene-D8	100%	101%	103%	80-120%
460-00-4	4-Bromofluorobenzene	97%	96%	96%	80-120%

Instrument Performance Check (BFB)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VG498-BFB	**Injection Date:**	04/16/02
Lab File ID:	G0015941.D	**Injection Time:**	08:50
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	28021	22.6	Pass
75	30.0 - 60.0% of mass 95	72856	58.7	Pass
95	Base peak, 100% relative abundance	124176	100.0	Pass
96	5.0 - 9.0% of mass 95	10184	8.2	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	86829	69.9	Pass
175	5.0 - 9.0% of mass 174	7200	5.8 (8.3) [a]	Pass
176	95.0 - 101.0% of mass 174	85413	68.8 (98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6674	5.4 (7.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG498-CC491	G0015943.D	04/16/02	09:57	01:07	Continuing cal 40
VG498-BS	G0015944.D	04/16/02	10:28	01:38	Blank Spike
VG498-MB	G0015945.D	04/16/02	10:59	02:09	Method Blank
F12863-17	G0015946.D	04/16/02	11:30	02:40	13GLM07I01
F12863-18	G0015947.D	04/16/02	12:02	03:12	13GLM07S01
F12863-19	G0015948.D	04/16/02	12:33	03:43	13GLM18S01
ZZZZZZ	G0015949.D	04/16/02	13:04	04:14	(unrelated sample)
F12899-2MS	G0015952.D	04/16/02	14:38	05:48	Matrix Spike
F12899-2MSD	G0015953.D	04/16/02	15:10	06:20	Matrix Spike Duplicate
F12899-2	G0015955.D	04/16/02	16:13	07:23	(used for QC only; not part of job F12863)
VG499-BS	G0015956.D	04/16/02	16:45	07:55	Blank Spike
OP4981-LB	G0015957.D	04/16/02	17:17	08:27	Leachate Blank
F12860-1	G0015958.D	04/16/02	17:49	08:59	(used for QC only; not part of job F12863)
ZZZZZZ	G0015959.D	04/16/02	18:20	09:30	(unrelated sample)
F12860-1MS	G0015960.D	04/16/02	18:52	10:02	Matrix Spike
F12860-1MSD	G0015961.D	04/16/02	19:24	10:34	Matrix Spike Duplicate
ZZZZZZ	G0015962.D	04/16/02	19:55	11:05	(unrelated sample)
ZZZZZZ	G0015963.D	04/16/02	20:27	11:37	(unrelated sample)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041602\G0015943.D Vial: 1
Acq On : 16 Apr 2002 9:57 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg498,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

KW
4-17-02

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	90	0.00
2		Dichlorodifluoromethane	0.296	0.303	-2.4	89	0.00
3	P	Chloromethane	0.361	0.365	-1.1	84	0.02
4	C	Vinyl Chloride	0.323	0.298	7.7	74	0.02
5		Bromomethane	0.213	0.190	10.8	78	0.03
6		Chloroethane	0.196	0.186	5.1	81	0.02
7		Trichlorofluoromethane	0.365	0.360	1.4	82	-0.02
8		Acrolein	0.028	0.019	32.1#	53	0.02
9	C	1,1-Dichloroethene	0.420	0.461	-9.8	95	0.00
10		Freon 113	0.246	0.213	13.4	72	0.00
11		Acetone	0.091	0.094	-3.3	88	0.04
12		Iodomethane	0.391	0.403	-3.1	88	0.00
13		Carbon Disulfide	0.773	0.855	-10.6	95	0.00
14		Methyl acetate	0.210	0.217	-3.3	97	0.02
15		Methylene Chloride	0.389	0.444	-14.1	113	0.00
16		Tert Butyl Alcohol	0.029	0.030	-3.4	98	0.09
17		trans-1,2-Dichloroethene	0.409	0.471	-15.2	110	0.00
18		Acrylonitrile	0.089	0.074	16.9	76	0.02
19		Methyl Tert Butyl Ether	0.803	0.838	-4.4	99	0.00
20		Hexane	0.348	0.402	-15.5	115	0.00
21	P	1,1-Dichloroethane	0.487	0.561	-15.2	113	0.00
22		Vinyl acetate	0.540	0.563	-4.3	99	0.02
23		Di-isopropyl ether	0.978	1.053	-7.7	103	0.02
24		ETBE	0.930	0.964	-3.7	97	0.02
25		2,2-Dichloropropane	0.293	0.351	-19.8	109	0.00
26		cis-1,2-Dichloroethene	0.268	0.303	-13.1	104	0.00
27		2-Butanone	0.126	0.131	-4.0	94	0.03
28		Bromochloromethane	0.149	0.161	-8.1	99	0.02
29		Tetrahydrofuran	0.090	0.081	10.0	85	0.03
30	C	Chloroform	0.501	0.578	-15.4	107	0.00
31		1,1,1-Trichloroethane	0.411	0.476	-15.8	112	0.00
32	S	Dibromofluoromethane	0.307	0.323	-5.2	95	0.02
33		Cyclohexane	0.440	0.482	-9.5	101	0.00
34		1,1-Dichloropropene	0.341	0.407	-19.4	113	0.02
35		Carbon Tetrachloride	0.351	0.427	-21.7#	111	0.02
36	S	1,2-Dichloroethane-d4	0.417	0.442	-6.0	97	0.00
37		Benzene	0.907	1.035	-14.1	107	0.02
38		1,2-Dichloroethane	0.465	0.546	-17.4	108	0.02
39		TAME	0.813	0.864	-6.3	98	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041602\G0015943.D Vial: 1
Acq On : 16 Apr 2002 9:57 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg498,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.325	-17.3	109	0.00
41		Methylcyclohexane	0.405	0.456	-12.6	106	0.00
42	C	1,2-Dichloropropane	0.272	0.309	-13.6	107	0.00
43		Dibromomethane	0.193	0.209	-8.3	102	0.00
44		1,4-Dioxane	0.003	0.003	0.0	88	0.08
45		Bromodichloromethane	0.400	0.457	-14.3	109	0.00
46		2-Nitropropane	0.097	0.100	-3.1	90	0.02
47		2-Chloroethyl vinyl ether	0.181	0.197	-8.8	99	0.00
48		4-Methyl-2-pentanone	0.269	0.285	-5.9	94	0.02
49		cis-1,3-Dichloropropene	0.450	0.514	-14.2	106	0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.02
51	S	Toluene-d8	1.274	1.285	-0.9	91	0.02
52	C	Toluene	1.282	1.464	-14.2	107	0.02
53		trans-1,3-Dichloropropene	0.601	0.660	-9.8	106	0.02
54		1,1,2-Trichloroethane	0.285	0.306	-7.4	102	0.02
55		Tetrachloroethene	0.355	0.400	-12.7	104	0.02
56		2-hexanone	0.261	0.268	-2.7	93	0.03
57		1,3-Dichloropropane	0.561	0.622	-10.9	104	0.02
58		Dibromochloromethane	0.356	0.403	-13.2	107	0.00
59		1,2-Dibromoethane	0.329	0.367	-11.6	99	0.02
60		1-Chlorohexane	0.469	0.528	-12.6	106	0.02
61	P	Chlorobenzene	0.872	0.957	-9.7	103	0.00
62		1,1,1,2-Tetrachloroethane	0.356	0.384	-7.9	104	0.02
63	C	Ethylbenzene	1.480	1.677	-13.3	106	0.02
64		m,p-Xylene	1.204	1.278	-6.1	100	0.02
65		o-Xylene	1.303	1.230	5.6	89	0.02
66		Styrene	0.970	0.897	7.5	90	0.00
67	P	Bromoform	0.226	0.218	3.5	89	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.02
69		Isopropylbenzene	2.459	2.696	-9.6	89	0.02
70		Cyclohexanone	0.028	0.021	25.0#	63	0.02
71	S	4-Bromofluorobenzene	1.111	1.065	4.1	75	0.02
72		Bromobenzene	0.724	0.722	0.3	82	0.02
73	P	1,1,2,2-Tetrachloroethane	0.789	0.831	-5.3	86	0.02
74		1,2,3-Trichloropropane	0.244	0.259	-6.1	83	0.02
75		trans-1,4-Dichloro-2-Butene	0.314	0.203	35.4#	51	0.00
76		n-Propylbenzene	3.198	3.551	-11.0	89	0.02

00424

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041602\G0015943.D Vial: 1
Acq On : 16 Apr 2002 9:57 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg498,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	2.225	-4.0	86	0.02
78	4-Chlorotoluene	2.473	2.662	-7.6	87	0.02
79	1,3,5-Trimethylbenzene	2.260	2.540	-12.4	90	0.02
80	sec-Butylbenzene	2.760	2.984	-8.1	90	0.02
81	1,3-Dichlorobenzene	1.330	1.433	-7.7	88	0.02
82	4-Isopropyltoluene	2.374	2.482	-4.5	88	0.02
83	1,4-Dichlorobenzene	1.341	1.431	-6.7	87	0.00
84	tert-Butylbenzene	1.546	1.713	-10.8	89	0.02
85	n-Butylbenzene	2.363	2.677	-13.3	93	0.02
86	1,2-Dichlorobenzene	1.284	1.401	-9.1	89	0.03
87	1,2,4-Trimethylbenzene	2.381	2.581	-8.4	86	0.02
88	1,2-Dibromo-3-Chloropropane	0.172	0.183	-6.4	83	0.00
89	1,2,4-Trichlorobenzene	1.008	1.079	-7.0	89	0.00
90	Hexachlorobutadiene	0.409	0.409	0.0	80	0.02
91	Naphthalene	2.227	2.385	-7.1	86	0.02
92	1,2,3-Trichlorobenzene	0.939	0.989	-5.3	87	0.02

Average % D = 9.5871

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-MB	G0015945.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-MB	G0015945.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	106%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-BS	G0015944.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-17, F12863-18, F12863-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	125	100	67-125
71-43-2	Benzene	25	27.1	108	75-125
75-27-4	Bromodichloromethane	25	21.8	87	75-125
75-25-2	Bromoform	25	25.2	101	72-125
108-90-7	Chlorobenzene	25	26.6	106	75-125
75-00-3	Chloroethane	25	25.0	100	58-136
67-66-3	Chloroform	25	27.0	108	75-125
75-15-0	Carbon disulfide	125	137	110	48-142
56-23-5	Carbon tetrachloride	25	30.4	122	75-136
75-34-3	1,1-Dichloroethane	25	25.9	104	75-125
75-35-4	1,1-Dichloroethylene	25	27.2	109	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	22.4	90	64-125
107-06-2	1,2-Dichloroethane	25	26.8	107	75-125
78-87-5	1,2-Dichloropropane	25	23.3	93	75-125
124-48-1	Dibromochloromethane	25	26.2	105	75-125
75-71-8	Dichlorodifluoromethane	25	28.8	115	48-171
156-59-2	cis-1,2-Dichloroethylene	25	27.0	108	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.2	85	75-125
541-73-1	m-Dichlorobenzene	25	25.3	101	75-125
95-50-1	o-Dichlorobenzene	25	24.9	100	75-125
106-46-7	p-Dichlorobenzene	25	25.7	103	75-125
156-60-5	trans-1,2-Dichloroethylene	25	26.9	108	73-125
540-59-0	1,2-Dichloroethene (total)	50	53.9	108	73-129
10061-02-6	trans-1,3-Dichloropropene	25	23.5	94	75-125
100-41-4	Ethylbenzene	25	28.0	112	68-135
76-13-1	Freon 113	25	27.4	110	75-125
591-78-6	2-Hexanone	125	125	100	68-125
98-82-8	Isopropylbenzene	25	26.8	107	75-125
108-10-1	4-Methyl-2-pentanone	125	110	88	75-125
74-83-9	Methyl bromide	25	23.4	94	59-146
74-87-3	Methyl chloride	25	27.2	109	50-142
75-09-2	Methylene chloride	25	28.1	112	69-125
78-93-3	Methyl ethyl ketone	125	128	102	70-125
1634-04-4	Methyl Tert Butyl Ether	25	25.5	102	75-125
100-42-5	Styrene	25	26.2	105	75-125
71-55-6	1,1,1-Trichloroethane	25	28.2	113	75-132

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-BS	G0015944.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12863-17, F12863-18, F12863-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	23.8	95	75-125
79-00-5	1,1,2-Trichloroethane	25	24.9	100	75-125
127-18-4	Tetrachloroethylene	25	27.5	110	75-126
108-88-3	Toluene	25	26.7	107	75-125
79-01-6	Trichloroethylene	25	22.9	92	75-125
75-69-4	Trichlorofluoromethane	25	28.6	114	55-162
75-01-4	Vinyl chloride	25	26.2	105	60-147
1330-20-7	Xylene (total)	75	81.7	109	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	105%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT Panama City CTO-184		JOB NUMBER JOB-2834 SDG-F12863	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY JAJ	DATE 20-May-02

Sample 13GLM014I01

1,1-Dichloroethane = 27.8 ug/L

$$\left(\frac{(302334)(50\,ug/L)}{(1115317)(1,1\text{-DCA})}\right) = \cancel{0.487}\ 27.83$$

$\cancel{0.487}$

1,1-DCA = 27.83 ug/L — OK

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015931.D	1	04/15/02	KW	n/a	n/a	VG497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.7	5.0	ug/l	
71-43-2	Benzene	3.9	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	27.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	18.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.9	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	4.9	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.7	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

00235

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041502\G0015931.D Vial: 15
Acq On : 15 Apr 2002 7:39 pm Operator: KarenW
Sample : F12863-10 Inst : MSVOA1
Misc : ms1454,vg497,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 16 8:12 2002 Quant Results File: 624.RES

Quant Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Initial Calibration
DataAcq Meth : 624

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	7.80	96	1115317	50.00 ug/L	0.02
50) Chlorobenzene-d5	12.89	117	846480	50.00 ug/L	0.02
68) 1,4-Dichlorobenzene-d4	17.30	152	476363	50.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane	6.76	113	356037	51.97 ug/L	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.94%		
36) 1,2-Dichloroethane-d4	7.27	65	508429	54.71 ug/L	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.42%		
51) Toluene-d8	10.37	98	1130557	52.40 ug/L	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.80%		
71) 4-Bromofluorobenzene	15.08	95	522228	49.34 ug/L	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.68%		
Target Compounds					Qvalue
9) 1,1-Dichloroethene	3.63	61	174719	18.65 ug/L	92
11) Acetone	3.68	43	13660	6.73 ug/L	95
21) 1,1-Dichloroethane	5.23	63	302334	27.84 ug/L	90
26) cis-1,2-Dichloroethene	6.07	96	29082	4.86 ug/L	89
37) Benzene	7.37	78	79194	3.91 ug/L	90
63) Ethylbenzene	13.15	91	43021	1.72 ug/L	95
87) 1,2,4-Trimethylbenzene	16.65	105	30911	1.36 ug/L	98

00237

(#) = qualifier out of range (m) = manual integration

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041502\G0015916.D
Acq On : 15 Apr 2002 11:42 am
Sample : CC491-40
Misc : ms1454,vg497,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

KW
4-15-02

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.01
2		Dichlorodifluoromethane	0.296	0.313	-5.7	97	0.00
3	P	Chloromethane	0.361	0.356	1.4	87	0.01
4	C	Vinyl Chloride	0.323	0.305	5.6	80	0.01
5		Bromomethane	0.213	0.218	-2.3	94	0.01
6		Chloroethane	0.196	0.196	0.0	90	0.01
7		Trichlorofluoromethane	0.365	0.430	-17.8	104	0.02
8		Acrolein	0.028	0.023	17.9	68	0.00
9	C	1,1-Dichloroethene	0.420	0.464	-10.5	101	0.00
10		Freon 113	0.246	0.263	-6.9	94	0.01
11		Acetone	0.091	0.105	-15.4	103	0.01
12		Iodomethane	0.391	0.435	-11.3	100	0.01
13		Carbon Disulfide	0.773	0.820	-6.1	96	0.00
14		Methyl acetate	0.210	0.221	-5.2	105	0.00
15		Methylene Chloride	0.389	0.422	-8.5	113	0.01
16		Tert Butyl Alcohol	0.029	0.029	0.0	99	0.01
17		trans-1,2-Dichloroethene	0.409	0.459	-12.2	113	0.01
18		Acrylonitrile	0.089	0.082	7.9	90	0.00
19		Methyl Tert Butyl Ether	0.803	0.831	-3.5	104	0.00
20		Hexane	0.348	0.392	-12.6	118	0.01
21	P	1,1-Dichloroethane	0.487	0.527	-8.2	112	0.01
22		Vinyl acetate	0.540	0.558	-3.3	103	0.01
23		Di-isopropyl ether	0.978	1.040	-6.3	108	0.01
24		ETBE	0.930	0.978	-5.2	104	0.01
25		2,2-Dichloropropane	0.293	0.344	-17.4	113	0.00
26		cis-1,2-Dichloroethene	0.268	0.304	-13.4	109	0.01
27		2-Butanone	0.126	0.138	-9.5	105	0.01
28		Bromochloromethane	0.149	0.162	-8.7	105	0.02
29		Tetrahydrofuran	0.090	0.091	-1.1	100	0.01
30	C	Chloroform	0.501	0.552	-10.2	108	0.01
31		1,1,1-Trichloroethane	0.411	0.456	-10.9	114	0.01
32	S	Dibromofluoromethane	0.307	0.311	-1.3	96	0.01
33		Cyclohexane	0.440	0.475	-8.0	106	0.01
34		1,1-Dichloropropene	0.341	0.403	-18.2	118	0.01
35		Carbon Tetrachloride	0.351	0.404	-15.1	110	0.02
36	S	1,2-Dichloroethane-d4	0.417	0.419	-0.5	97	0.01
37		Benzene	0.907	1.012	-11.6	111	0.02
38		1,2-Dichloroethane	0.465	0.510	-9.7	107	0.02
39		TAME	0.813	0.850	-4.6	102	0.01

(#) = Out of Range

Instrument Performance Check (DFTPP)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW518-DFTPP
Lab File ID: W009333.D
Instrument ID: GCMSW
Injection Date: 04/11/02
Injection Time: 09:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1	Pass
68	Less than 2.0% of mass 69	218	0.1 (0.29) [a]	Pass
69	Mass 69 relative abundance	74456	35.3	Pass
70	Less than 2.0% of mass 69	377	0.18 (0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	92498	43.8	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	211051	100.0	Pass
199	5.0 - 9.0% of mass 198	14373	6.8	Pass
275	10.0 - 30.0% of mass 198	45157	21.4	Pass
365	1.0 - 100.0% of mass 198	4255	2.0	Pass
441	Present, but less than mass 443	28291	13.4 (76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	187979	89.1	Pass
443	17.0 - 23.0% of mass 442	36795	17.4 (19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job F12863)
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job F12863)
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files

5	=W009335.D	25	=W009336.D	50	=W009334.D
75	=W009337.D	100	=W009338.D	125	=W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	ISTD							
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	ISTD							

(#) = Out of Range
Average % RSD = 10.2642

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22
45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19 OK
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74

Average % RSD = 8.98601

(#) = Out of Range

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.46434

(#) = Out of Range

Instrument Performance Check (DFTPP)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW526-DFTPP
Lab File ID: W009493.D
Instrument ID: GCMSW
Injection Date: 04/22/02
Injection Time: 13:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	80554	49.3		Pass
68	Less than 2.0% of mass 69	337	0.21	(0.58) [a]	Pass
69	Mass 69 relative abundance	58453	35.8		Pass
70	Less than 2.0% of mass 69	195	0.12	(0.33) [a]	Pass
127	40.0 - 60.0% of mass 198	72762	44.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	163264	100.0		Pass
199	5.0 - 9.0% of mass 198	10974	6.7		Pass
275	10.0 - 30.0% of mass 198	34960	21.4		Pass
365	1.0 - 100.0% of mass 198	3471	2.1		Pass
441	Present, but less than mass 443	21669	13.3	(79.7) [b]	Pass
442	40.0 - 100.0% of mass 198	143703	88.0		Pass
443	17.0 - 23.0% of mass 442	27205	16.7	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW526-CC518	W009494.D	04/22/02	13:40	00:19	Continuing cal 75
OP5008-MB	W009495.D	04/22/02	14:11	00:50	Method Blank
ZZZZZZ	W009496.D	04/22/02	14:41	01:20	(unrelated sample)
OP4979-BS	W009497.D	04/22/02	15:12	01:51	Blank Spike
OP4979-MB	W009498.D	04/22/02	15:42	02:21	Method Blank
F12863-1	W009500.D	04/22/02	16:44	03:23	13GLM06S01
F12863-2	W009501.D	04/22/02	17:14	03:53	13GLM06I01
F12863-3	W009502.D	04/22/02	17:45	04:24	13GLM06I01D
F12863-4	W009503.D	04/22/02	18:16	04:55	13GLM015S01
F12863-5	W009504.D	04/22/02	18:46	05:25	13GLM015I01
F12863-6	W009505.D	04/22/02	19:18	05:57	13GLM016S01
F12863-7	W009506.D	04/22/02	19:48	06:27	13GLM04I01
F12863-8	W009507.D	04/22/02	20:18	06:57	13GLM04S01
F12863-9	W009508.D	04/22/02	20:49	07:28	13GLM012I01
F12863-10	W009509.D	04/22/02	21:20	07:59	13GLM014I01
F12863-11	W009510.D	04/22/02	21:51	08:30	13GLM05I01
F12863-12	W009511.D	04/22/02	22:21	09:00	13GLM05S01
F12863-13	W009512.D	04/22/02	22:52	09:31	13GLM011I01
F12863-14	W009513.D	04/22/02	23:22	10:01	13GLM011S01

Instrument Performance Check (DFTPP)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW526-DFTPP
Lab File ID: W009493.D
Instrument ID: GCMSW
Injection Date: 04/22/02
Injection Time: 13:21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12863-15	W009514.D	04/22/02	23:53	10:32	13GLM13S01
F12863-16	W009515.D	04/23/02	00:24	11:03	13GLM13I01
F12863-17	W009516.D	04/23/02	00:54	11:33	13GLM07I01

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042202\W009494.D
Acq On : 22 Apr 2002 1:40 pm
Sample : cc518-75
Misc : op5008,sw526,100,,,1,1,water
MS Integration Params: LSCINT.P

Vial: 2
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/22/02 ✓

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
2		1,4-Dioxane	0.445	0.441	0.9	77	0.00
3		N-nitrosodimethylamine	0.558	0.539	3.4	71	-0.08
4		Pyridine	1.008	0.951	5.7	73	-0.07
5		Benzaldehyde	0.502	0.550	-9.6	101	0.00
6		Aniline	1.505	1.388	7.8	79	-0.01
7	S	2-Fluorophenol	1.207	1.145	5.1	81	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.262	0.3	81	0.00
9	S	Phenol-d5	1.457	1.364	6.4	81	0.00
10	C	Phenol	1.599	1.486	7.1	82	0.00
11		2-Chlorophenol	1.394	1.342	3.7	80	0.00
12		1,3-Dichlorobenzene	1.523	1.454	4.5	81	0.00
13	C	1,4-Dichlorobenzene	1.484	1.458	1.8	83	0.00
14		1,2-Dichlorobenzene	1.387	1.361	1.9	82	0.00
15		Benzyl alcohol	0.859	0.829	3.5	80	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.797	0.3	86	0.00
17		2-Methylphenol	1.143	1.067	6.6	79	0.00
18		Acetophenone	1.539	1.416	8.0	81	0.00
19		Hexachloroethane	0.548	0.536	2.2	82	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.726	8.3	79	0.00
21		3&4-Methylphenol	1.094	1.010	7.7	82	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00
23	S	Nitrobenzene-d5	0.369	0.356	3.5	79	0.00
24		Nitrobenzene	0.351	0.341	2.8	80	0.00
25		Isophorone	0.640	0.597	6.7	78	0.00
26	C	2-Nitrophenol	0.212	0.205	3.3	81	0.00
27		2,4-Dimethylphenol	0.344	0.316	8.1	77	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.368	5.2	82	0.00
29		Benzoic Acid	0.247	0.256	-3.6	78	0.03
30	C	2,4-Dichlorophenol	0.304	0.296	2.6	82	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	80	0.00
32		Naphthalene	0.959	0.926	3.4	81	0.00
33		4-Chloroaniline	0.350	0.328	6.3	81	0.00
34		2,6-Dichlorophenol	0.288	0.275	4.5	81	0.00
35	C	Hexachlorobutadiene	0.179	0.172	3.9	81	0.00
36		Caprolactam	0.194	0.185	4.6	78	-0.01
37	C	4-Chloro-3-methylphenol	0.276	0.259	6.2	78	0.00
38		2-Methylnaphthalene	0.647	0.623	3.7	80	0.00
39		1-Methylnaphthalene	0.614	0.577	6.0	78	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.263	4.4	82	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.279	1.1	73	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.394	2.7	77	0.00

44		2,4,5-Trichlorophenol	0.423	0.425	-0.5	80	0.00
45	S	2-Fluorobiphenyl	1.362	1.335	2.0	80	0.00
46		1,1'-Biphenyl	1.455	1.433	1.5	80	0.00
47		2-Chloronaphthalene	1.182	1.184	-0.2	81	0.00
48		2-Nitroaniline	0.357	0.355	0.6	78	0.00
49		Acenaphthylene	1.551	1.530	1.4	78	0.00
50		Dimethylphthalate	1.254	1.208	3.7	76	0.00
51		2,6-Dinitrotoluene	0.292	0.287	1.7	76	0.00
52	C	Acenaphthene	1.083	1.060	2.1	79	0.00
53		3-Nitroaniline	0.319	0.320	-0.3	76	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	71	0.00
55		Dibenzofuran	1.534	1.473	4.0	79	0.00
56		2,4-Dinitrotoluene	0.348	0.333	4.3	77	0.00
57	P	4-Nitrophenol	0.142	0.136	4.2	74	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.270	3.9	76	0.00
59		Fluorene	1.173	1.159	1.2	80	0.00
60		4-Chlorophenyl-phenylether	0.544	0.531	2.4	80	0.00
61		Diethylphthalate	1.121	1.057	5.7	74	0.00
62		4-Nitroaniline	0.281	0.293	-4.3	82	0.00
63	I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.170	2.3	74	-0.02
65	C	n-Nitrosodiphenylamine	0.622	0.618	0.6	78	0.00
66		1,2-Diphenylhydrazine	0.886	0.871	1.7	77	-0.01
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	76	-0.01
68		4-Bromophenyl-phenylether	0.213	0.209	1.9	76	0.00
69		Hexachlorobenzene	0.213	0.210	1.4	79	0.00
70		Atrazine	0.095	0.080	15.8	68	0.00
71	C	Pentachlorophenol	0.131	0.129	1.5	73	0.00
72		Phenanthrene	1.155	1.112	3.7	77	0.00
73		Anthracene	1.146	1.116	2.6	78	0.00
74		Carbazole	1.095	1.065	2.7	77	0.00
75		Di-n-butylphthalate	1.238	1.205	2.7	76	0.02
76	C	Fluoranthene	1.088	1.053	3.2	79	0.02
77	I	Chrysene-d12	1.000	1.000	0.0	83	0.00
78		Benzidine	0.192	0.215	-12.0	116	-0.01
79		Pyrene	1.874	1.827	2.5	78	-0.02
80	S	Terphenyl-d14	1.108	1.070	3.4	77	-0.01
81		Butylbenzylphthalate	0.761	0.748	1.7	77	0.00
82		3,3'-Dichlorobenzidine	0.346	0.384	-11.0	95	0.00
83		Benzo[a]anthracene	1.303	1.280	1.8	79	0.00
84		Chrysene	1.276	1.258	1.4	79	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.955	-0.7	78	0.00
86	I	Perylene-d12	1.000	1.000	0.0	84	0.00
87	C	Di-n-octylphthalate	2.177	2.145	1.5	80	0.00
88		Benzo[b]fluoranthene	1.460	1.421	2.7	81	0.00
89		Benzo[k]fluoranthene	1.498	1.436	4.1	84	0.00
90	C	Benzo[a]pyrene	1.267	1.289	-1.7	86	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	1.105	-16.9	99	0.00
92		Dibenz[a,h]anthracene	1.019	1.144	-12.3	94	0.01
93		Benzo[g,h,i]perylene	1.028	1.147	-11.6	97	0.00

Average % D = 4.1

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009337.D 8270C.M Mon Apr 22 14:05:17 2002 MSBNA01

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009498.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009498.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	58%	20-125%
4165-62-2	Phenol-d5	40%	10-125%
118-79-6	2,4,6-Tribromophenol	93%	35-140%
4165-60-0	Nitrobenzene-d5	88%	46-125%

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009498.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	84%	46-125%
1718-51-0	Terphenyl-d14	84%	49-126%

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-BS [a]	W009497.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.9	74	60-125
59-50-7	4-Chloro-3-methyl phenol	50	38.4	77	70-125
120-83-2	2,4-Dichlorophenol	50	40.0	80	68-125
105-67-9	2,4-Dimethylphenol	50	28.3	57	42-125
51-28-5	2,4-Dinitrophenol	50	35.8	72	10-125
534-52-1	4,6-Dinitro-o-cresol	50	37.8	76	46-125
95-48-7	2-Methylphenol	50	35.6	71	51-125
	3&4-Methylphenol	100	65.8	66	46-125
88-75-5	2-Nitrophenol	50	39.6	79	64-125
100-02-7	4-Nitrophenol	50	17.7	35	17-125
87-86-5	Pentachlorophenol	50	36.8	74	60-125
108-95-2	Phenol	50	20.3	41	16-125
95-95-4	2,4,5-Trichlorophenol	50	40.8	82	74-125
88-06-2	2,4,6-Trichlorophenol	50	39.6	79	70-125
83-32-9	Acenaphthene	50	39.5	79	70-125
208-96-8	Acenaphthylene	50	47.0	94	75-125
120-12-7	Anthracene	50	42.4	85	75-125
56-55-3	Benzo(a)anthracene	50	41.2	82	75-125
50-32-8	Benzo(a)pyrene	50	43.0	86	75-125
205-99-2	Benzo(b)fluoranthene	50	40.7	81	75-125
191-24-2	Benzo(g,h,i)perylene	50	45.0	90	57-135
207-08-9	Benzo(k)fluoranthene	50	40.3	81	75-125
101-55-3	4-Bromophenyl phenyl ether	50	41.7	83	74-125
85-68-7	Butyl benzyl phthalate	50	39.7	79	38-134
91-58-7	2-Chloronaphthalene	50	41.7	83	59-125
106-47-8	4-Chloroaniline	50	41.8	84	31-125
86-74-8	Carbazole	50	41.6	83	75-125
218-01-9	Chrysene	50	40.7	81	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	40.2	80	64-125
111-44-4	bis(2-Chloroethyl)ether	50	40.6	81	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	43.1	86	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	41.5	83	75-125
121-14-2	2,4-Dinitrotoluene	50	41.1	82	73-125
606-20-2	2,6-Dinitrotoluene	50	41.9	84	75-125
91-94-1	3,3'-Dichlorobenzidine	50	41.9	84	55-125
53-70-3	Dibenzo(a,h)anthracene	50	44.2	88	64-130

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-BS [a]	W009497.D	1	04/22/02	ME	04/16/02	OP4979	SW526

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	39.2	78	73-125
84-74-2	Di-n-butyl phthalate	50	42.0	84	47-140
117-84-0	Di-n-octyl phthalate	50	40.8	82	52-125
84-66-2	Diethyl phthalate	50	40.0	80	59-125
131-11-3	Dimethyl phthalate	50	39.8	80	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.8	84	71-125
206-44-0	Fluoranthene	50	41.5	83	75-125
86-73-7	Fluorene	50	41.1	82	75-125
87-68-3	Hexachlorobutadiene	50	31.5	63	22-125
77-47-4	Hexachlorocyclopentadiene	50	23.6	47	10-125
67-72-1	Hexachloroethane	50	32.8	66	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	45.1	90	53-130
90-12-0	1-Methylnaphthalene	50	38.0	76	55-125
91-57-6	2-Methylnaphthalene	50	38.7	77	51-125
88-74-4	2-Nitroaniline	50	40.5	81	75-125
99-09-2	3-Nitroaniline	50	37.9	76	62-125
100-01-6	4-Nitroaniline	50	41.9	84	67-125
91-20-3	Naphthalene	50	41.2	82	53-125
98-95-3	Nitrobenzene	50	41.8	84	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	40.9	82	61-125
86-30-6	N-Nitrosodiphenylamine	50	44.1	88	75-125
85-01-8	Phenanthrene	50	40.6	81	75-125
129-00-0	Pyrene	50	38.4	77	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	20-125%
4165-62-2	Phenol-d5	37%	10-125%
118-79-6	2,4,6-Tribromophenol	83%	35-140%
4165-60-0	Nitrobenzene-d5	80%	46-125%
321-60-8	2-Fluorobiphenyl	81%	46-125%
1718-51-0	Terphenyl-d14	81%	49-126%

(a) Insufficient sample for MS/MSD.

Instrument Performance Check (DFTPP)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6) [a]	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9) [b]	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
ZZZZZZ	W009522.D	04/23/02	11:22	01:19	(unrelated sample)
F12863-18	W009523.D	04/23/02	11:52	01:49	13GLM07S01
F12863-19	W009524.D	04/23/02	12:23	02:20	13GLM18S01
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
ZZZZZZ	W009527.D	04/23/02	13:53	03:50	(unrelated sample)
ZZZZZZ	W009528.D	04/23/02	14:24	04:21	(unrelated sample)
ZZZZZZ	W009529.D	04/23/02	14:54	04:51	(unrelated sample)
ZZZZZZ	W009530.D	04/23/02	15:24	05:21	(unrelated sample)
ZZZZZZ	W009531.D	04/23/02	15:54	05:51	(unrelated sample)
ZZZZZZ	W009532.D	04/23/02	16:25	06:22	(unrelated sample)
ZZZZZZ	W009533.D	04/23/02	16:54	06:51	(unrelated sample)
ZZZZZZ	W009534.D	04/23/02	17:24	07:21	(unrelated sample)
ZZZZZZ	W009535.D	04/23/02	17:55	07:52	(unrelated sample)
ZZZZZZ	W009536.D	04/23/02	18:25	08:22	(unrelated sample)
ZZZZZZ	W009537.D	04/23/02	18:55	08:52	(unrelated sample)
ZZZZZZ	W009538.D	04/23/02	19:24	09:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	(used for QC only; not part of job F12863)
ZZZZZZ	W009542.D	04/23/02	21:25	11:22	(unrelated sample)
ZZZZZZ	W009543.D	04/23/02	21:55	11:52	(unrelated sample)
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job F12863)
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D Vial: 2
Acq On : 23 Apr 2002 10:22 am Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op4979,sw527,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/24/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01

44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009334.D 8270C.M Tue Apr 23 10:45:48 2002 MSBNA01

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009521.D	1	04/23/02	ME	04/16/02	OP4979	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009521.D	1	04/23/02	ME	04/16/02	OP4979	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	58%	20-125%
4165-62-2	Phenol-d5	39%	10-125%
118-79-6	2,4,6-Tribromophenol	90%	35-140%
4165-60-0	Nitrobenzene-d5	86%	46-125%

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4979-MB	W009521.D	1	04/23/02	ME	04/16/02	OP4979	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	85%	46-125%
1718-51-0	Terphenyl-d14	87%	49-126%

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT Panama City CTO -184		JOB NUMBER Job- 2834 SDG- F12863	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY	DATE 20-May-02

Sample 13GLM13501

bis(2-ethylhexyl)phthalate = 5.2 ug/L

$$\left(\frac{(38547)(40\,ug/L)}{(312417)(bis)}\right) = 0.948$$

bis(2EHP) = 5.206 — OK

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W009514.D	1	04/22/02	ME	04/16/02	OP4979	SW526
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	4.4	5.0	ug/l	J
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	5.2	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		20-125%
4165-62-2	Phenol-d5	33%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	76%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042202\W009514.D
Acq On : 22 Apr 2002 11:53 pm
Sample : f12863-15
Misc : op4979,sw526,990,,,1,1,water
MS Integration Params: LSCINT.P
Quant Time: Apr 23 10:10 2002

Vial: 22
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

04/23/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.19	152	235138	40.00	ppm	0.00
22) Naphthalene-d8	6.42	136	820574	40.00	ppm	0.00
41) Acenaphthene-d10	8.78	164	387289	40.00	ppm	0.00
63) Phenanthrene-d10	11.31	188	483775	40.00	ppm	0.00
77) Chrysene-d12	16.25	240	312417	40.00	ppm	-0.01
86) Perylene-d12	18.75	264	204298	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	4.08	112	349946	49.32	ppm	-0.02
Spiked Amount 100.000	Range 20 - 125		Recovery = 49.32%			
9) Phenol-d5	4.88	99	281551	32.87	ppm	-0.02
Spiked Amount 100.000	Range 10 - 125		Recovery = 32.87%			
23) Nitrobenzene-d5	5.68	82	293660	38.76	ppm	-0.02
Spiked Amount 50.000	Range 46 - 125		Recovery = 77.52%			
45) 2-Fluorobiphenyl	7.77	172	504226	38.23	ppm	-0.01
Spiked Amount 50.000	Range 46 - 125		Recovery = 76.46%			
67) 2,4,6-Tribromophenol	10.09	330	106969	85.38	ppm	-0.02
Spiked Amount 100.000	Range 35 - 140		Recovery = 85.38%			
80) Terphenyl-d14	14.34	244	346412	40.02	ppm	-0.02
Spiked Amount 50.000	Range 49 - 126		Recovery = 80.04%			

Target Compounds						Qvalue
85) bis(2-Ethylhexyl)phthalate	16.52	149	38547	5.21	ppm	59
87) Di-n-octylphthalate	17.71	149	49444	4.45	ppm	99

(#) = qualifier out of range (m) = manual integration

00520

44		2,4,5-Trichlorophenol	0.423	0.425	-0.5	80	0.00
45	S	2-Fluorobiphenyl	1.362	1.335	2.0	80	0.00
46		1,1'-Biphenyl	1.455	1.433	1.5	80	0.00
47		2-Chloronaphthalene	1.182	1.184	-0.2	81	0.00
48		2-Nitroaniline	0.357	0.355	0.6	78	0.00
49		Acenaphthylene	1.551	1.530	1.4	78	0.00
50		Dimethylphthalate	1.254	1.208	3.7	76	0.00
51		2,6-Dinitrotoluene	0.292	0.287	1.7	76	0.00
52	C	Acenaphthene	1.083	1.060	2.1	79	0.00
53		3-Nitroaniline	0.319	0.320	-0.3	76	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	71	0.00
55		Dibenzofuran	1.534	1.473	4.0	79	0.00
56		2,4-Dinitrotoluene	0.348	0.333	4.3	77	0.00
57	P	4-Nitrophenol	0.142	0.136	4.2	74	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.270	3.9	76	0.00
59		Fluorene	1.173	1.159	1.2	80	0.00
60		4-Chlorophenyl-phenylether	0.544	0.531	2.4	80	0.00
61		Diethylphthalate	1.121	1.057	5.7	74	0.00
62		4-Nitroaniline	0.281	0.293	-4.3	82	0.00
63	I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.170	2.3	74	-0.02
65	C	n-Nitrosodiphenylamine	0.622	0.618	0.6	78	0.00
66		1,2-Diphenylhydrazine	0.886	0.871	1.7	77	-0.01
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	76	-0.01
68		4-Bromophenyl-phenylether	0.213	0.209	1.9	76	0.00
69		Hexachlorobenzene	0.213	0.210	1.4	79	0.00
70		Atrazine	0.095	0.080	15.8	68	0.00
71	C	Pentachlorophenol	0.131	0.129	1.5	73	0.00
72		Phenanthrene	1.155	1.112	3.7	77	0.00
73		Anthracene	1.146	1.116	2.6	78	0.00
74		Carbazole	1.095	1.065	2.7	77	0.00
75		Di-n-butylphthalate	1.238	1.205	2.7	76	0.02
76	C	Fluoranthene	1.088	1.053	3.2	79	0.02
77	I	Chrysene-d12	1.000	1.000	0.0	83	0.00
78		Benzidine	0.192	0.215	-12.0	116	-0.01
79		Pyrene	1.874	1.827	2.5	78	-0.02
80	S	Terphenyl-d14	1.108	1.070	3.4	77	-0.01
81		Butylbenzylphthalate	0.761	0.748	1.7	77	0.00
82		3,3'-Dichlorobenzidine	0.346	0.384	-11.0	95	0.00
83		Benzo[a]anthracene	1.303	1.280	1.8	79	0.00
84		Chrysene	1.276	1.258	1.4	79	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.955	-0.7	78	0.00
86	I	Perylene-d12	1.000	1.000	0.0	84	0.00
87	C	Di-n-octylphthalate	2.177	2.145	1.5	80	0.00
88		Benzo[b]fluoranthene	1.460	1.421	2.7	81	0.00
89		Benzo[k]fluoranthene	1.498	1.436	4.1	84	0.00
90	C	Benzo[a]pyrene	1.267	1.289	-1.7	86	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	1.105	-16.9	99	0.00
92		Dibenz[a,h]anthracene	1.019	1.144	-12.3	94	0.01
93		Benzo[g,h,i]perylene	1.028	1.147	-11.6	97	0.00

Average % D = 4.1

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009337.D 8270C.M Mon Apr 22 14:05:17 2002 MSBNA01

Response Factor Report DAD

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Mon Apr 22 14:35:03 2002
Response via : Initial Calibration

MLR 4/22/02

Calibration Files
L1 =AA010501.D L2 =AA010496.D L3 =AA010497.D
L4 =AA010498.D L5 =AA010499.D L6 =AA010500.D

		Compound	L1	L2	L3	L4	L5	L6	Avg		%RSD
1)		Naphthalene	5.104	4.685	4.542	4.365	4.197	4.256	4.525	E5	7.44
2)		Acenaphthylene	2.100	1.781	1.754	1.735	1.672	1.701	1.790	E5	8.74
3)		1-Methyl Naphthalen	4.429	4.072	3.961	3.787	3.643	3.704	3.933	E5	7.41
4)		2-Methyl Naphthalen	4.265	3.995	3.873	3.733	3.594	3.655	3.853	E5	6.48
5)		Acenaphthene	3.516	3.242	3.133	2.968	2.853	2.906	3.103	E5	8.03
6)		Fluorene	1.253	1.101	1.052	1.038	0.993	1.004	1.073	E6	8.94
7)		Phenanthrene	1.092	0.980	0.934	0.921	0.883	0.897	0.951	E6	8.08
8)	S	O-Terphenyl	4.211	3.836	3.685	3.651	3.506	3.572	3.744	E5	6.81
9)		Anthracene		1.012	0.891	0.918	0.856	0.874	0.910	E5	6.75
10)		Fluoranthene	9.555	9.199	8.764	8.253	7.902	8.025	8.616	E5	7.76
11)		Pyrene	1.461	1.335	1.251	1.188	1.117	1.112	1.244	E6	10.89
12)	S	P-Terphenyl	1.644	1.560	1.514	1.434	1.378	1.400	1.488	E6	6.93
13)		Benzo(a)Anthracene	2.811	2.490	2.383	2.230	2.132	2.157	2.367	E6	10.87
14)		Chrysene		3.205	2.945	2.749	2.535	2.487	2.784	E6	10.68
15)		Benzo(b)Fluoranthen	1.445	1.281	1.221	1.194	1.148	1.171	1.243	E6	8.75
16)		Benzo(k)Fluoranthen	8.859	7.790	7.386	7.120	6.874	6.999	7.505	E5	9.85
17)		Benzo(a) Pyrene	1.936	1.553	1.471	1.436	1.382	1.406	1.531	E6	13.54
18)		Dibenzo(a,h)anthrac	1.427	1.246	1.194	1.114	1.072	1.090	1.190	E6	11.19
19)		Benzo(g,h,i) Peryle	9.828	8.978	8.635	8.231	7.937	8.092	8.617	E5	8.18
20)		Indeno(1,2,3-cd)pyr	8.176	7.135	6.872	6.579	6.323	6.443	6.921	E5	9.85

Signal #2 Calibration Files
L1 =AA010501.D L2 =AA010496.D L3 =AA010497.D
L4 =AA010498.D L5 =AA010499.D L6 =AA010500.D

		Compound	L1	L2	L3	L4	L5	L6	Avg		%RSD
1)		Naphthalene		2.891	2.793	2.648	2.537	2.582	2.690	E5	5.50
2)		Acenaphthylene	1.728	1.888	1.821	1.705	1.642	1.675	1.743	E5	5.36
3)		1-Methyl Naphthalen	1.543	1.752	1.676	1.604	1.547	1.580	1.617	E5	5.07
4)		2-Methyl Naphthalen	2.068	2.366	2.329	2.246	2.166	2.209	2.231	E5	4.89
5)		Acenaphthene	0.893	1.019	1.048	1.004	0.969	0.992	0.988	E5	5.39
6)		Fluorene	1.312	1.270	1.249	1.200	1.155	1.176	1.227	E6	4.89
7)		Phenanthrene	3.639	3.375	3.236	3.055	2.888	2.882	3.179	E6	9.34
8)	S	O-Terphenyl		6.176	6.362	6.105	5.882	5.987	6.102	E5	3.01
9)		Anthracene	8.050	7.141	5.831	4.681	3.914	3.502	5.520	E6	~~32.89~~ QUAD MLR 4/22/02
10)		Fluoranthene	8.285	8.341	8.522	7.941	7.629	7.954	8.112	E5	4.04
11)		Pyrene	7.785	7.587	7.570	7.276	6.991	7.123	7.389	E5	4.15
12)	S	P-Terphenyl		7.582	7.517	7.225	6.951	7.061	7.267	E5	3.80
13)		Benzo(a)Anthracene	1.969	1.754	1.745	1.681	1.619	1.652	1.737	E6	7.21
14)		Chrysene	2.996	2.662	2.586	2.470	2.364	2.398	2.579	E6	9.04
15)		Benzo(b)Fluoranthen	1.269	1.153	1.091	1.068	1.024	1.050	1.109	E6	8.08
16)		Benzo(k)Fluoranthen	2.048	1.799	1.743	1.680	1.617	1.647	1.756	E6	8.98
17)		Benzo(a) Pyrene	1.483	1.074	1.033	0.986	0.939	0.947	1.077	E6	19.09
18)		Dibenzo(a,h)anthrac	3.102	2.764	2.661	2.520	2.384	2.384	2.636	E6	10.39
19)		Benzo(g,h,i) Peryle	1.637	1.412	1.382	1.325	1.275	1.297	1.388	E6	9.53
20)		Indeno(1,2,3-cd)pyr	1.083	0.975	0.960	0.925	0.890	0.907	0.957	E6	7.30

Average % RSD = 8.6

00908

MLR 4/22/02

Evaluate Continuing Calibration Report

Signal #1 : F:\HPCHEM\1\DATA\0503PAH\AA010595.D\DAD1B.CH Vial: 2
Signal #2 : F:\HPCHEM\1\DATA\0503PAH\AA010595.D\DAD1A.CH
Acq On : 03-May-2002, 14:16:58 Operator: MIKEE
Sample : CC481-10 Inst : DAD
Misc : op4978,gaa488,1000,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Thu May 02 11:16:34 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	10.000	10.050	-0.5	100	-0.03
2		Acenaphthylene	10.000	9.907	0.9	101	-0.01
3		1-Methyl Naphthalene	10.000	10.040	-0.4	100	0.00
4		2-Methyl Naphthalene	10.000	10.177	-1.8	101	0.00
5		Acenaphthene	10.000	9.887	1.1	98	0.00
6		Fluorene	10.000	10.191	-1.9	104	0.00
7		Phenanthrene	10.000	10.197	-2.0	104	0.01
8	S	O-Terphenyl	10.000	10.296	-3.0	105	0.02
9		Anthracene	10.000	11.308	-13.1	115	0.02
10		Fluoranthene	10.000	10.198	-2.0	100	0.02
11		Pyrene	10.000	10.496	-5.0	104	0.02
12	S	P-Terphenyl	10.000	10.324	-3.2	102	0.00
13		Benzo(a)Anthracene	5.000	5.045	-0.9	100	0.00
14		Chrysene	5.000	5.490	-9.8	104	0.00
15		Benzo(b)Fluoranthene	5.000	5.097	-1.9	104	0.01
16		Benzo(k)Fluoranthene	5.000	5.156	-3.1	105	0.02
17		Benzo(a) Pyrene	5.000	4.936	1.3	103	0.02
18		Dibenzo(a,h)anthracene	5.000	5.137	-2.7	102	0.03
19		Benzo(g,h,i) Perylene	5.000	5.040	-0.8	101	0.03
20		Indeno(1,2,3-cd)pyrene	5.000	4.920	1.6	99	0.04

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	10.000	10.378	-3.8	100	-0.03
2		Acenaphthylene	10.000	10.142	-1.4	97	-0.01
3		1-Methyl Naphthalene	10.000	10.389	-3.9	100	0.00
4		2-Methyl Naphthalene	10.000	10.579	-5.8	101	0.00
5		Acenaphthene	10.000	10.347	-3.5	97	0.00
6		Fluorene	10.000	10.268	-2.7	101	0.00
7		Phenanthrene	10.000	10.298	-3.0	101	0.01
8	S	O-Terphenyl	10.000	10.382	-3.8	100	0.02
9		Anthracene	10.000	11.255	-12.6	102	0.02
10		Fluoranthene	10.000	10.306	-3.1	98	0.02
11		Pyrene	10.000	10.497	-5.0	102	0.02
12	S	P-Terphenyl	10.000	10.627	-6.3	103	0.00
13		Benzo(a)Anthracene	5.000	5.129	-2.6	102	0.00
14		Chrysene	5.000	5.151	-3.0	103	0.00
15		Benzo(b)Fluoranthene	5.000	5.100	-2.0	104	0.01
16		Benzo(k)Fluoranthene	5.000	5.076	-1.5	102	0.02
17		Benzo(a) Pyrene	5.000	4.836	3.3	101	0.02
18		Dibenzo(a,h)anthracene	5.000	5.199	-4.0	103	0.03

19	Benzo(g,h,i) Perylene	5.000	5.059	-1.2	102	0.03
20	Indeno(1,2,3-cd)pyrene	5.000	5.034	-0.7	100	0.04

Average % D = 3.2

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AA010497.D 8310_32.M Mon May 06 13:21:15 2002

Evaluate Continuing Calibration Report

Signal #1 : F:\HPCHEM\1\DATA\0503PAH\AA010603.D\DAD1B.CH Vial: 10
Signal #2 : F:\HPCHEM\1\DATA\0503PAH\AA010603.D\DAD1A.CH
Acq On : 03-May-2002, 17:27:14 Operator: MIKEE
Sample : CC481-20 Inst : DAD
Misc : op4978,gaa488,1000,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Thu May 02 11:16:34 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	19.714	1.4	102	0.00
2		Acenaphthylene	20.000	19.743	1.3	102	0.00
3		1-Methyl Naphthalene	20.000	19.684	1.6	102	0.00
4		2-Methyl Naphthalene	20.000	19.931	0.3	103	0.00
5		Acenaphthene	20.000	19.375	3.1	101	0.00
6		Fluorene	20.000	19.843	0.8	103	0.00
7		Phenanthrene	20.000	19.886	0.6	103	0.00
8	S	O-Terphenyl	20.000	20.107	-0.5	103	0.00
9		Anthracene	20.000	20.906	-4.5	104	0.00
10		Fluoranthene	20.000	19.721	1.4	103	0.00
11		Pyrene	20.000	19.941	0.3	104	0.00
12	S	P-Terphenyl	20.000	20.001	-0.0	104	0.00
13		Benzo(a)Anthracene	10.000	9.773	2.3	104	0.00
14		Chrysene	10.000	10.209	-2.1	103	0.00
15		Benzo(b)Fluoranthene	10.000	9.947	0.5	104	0.00
16		Benzo(k)Fluoranthene	10.000	10.017	-0.2	106	0.00
17		Benzo(a) Pyrene	10.000	9.465	5.4	101	0.00
18		Dibenzo(a,h)anthracene	10.000	9.808	1.9	105	0.00
19		Benzo(g,h,i) Perylene	10.000	9.686	3.1	101	0.00
20		Indeno(1,2,3-cd)pyrene	10.000	9.579	4.2	101	-0.01

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	20.325	-1.6	103	0.00
2		Acenaphthylene	20.000	20.001	-0.0	102	0.00
3		1-Methyl Naphthalene	20.000	20.416	-2.1	103	0.00
4		2-Methyl Naphthalene	20.000	20.747	-3.7	103	0.00
5		Acenaphthene	20.000	20.564	-2.8	101	0.00
6		Fluorene	20.000	20.076	-0.4	103	0.00
7		Phenanthrene	20.000	19.750	1.3	103	0.00
8	S	O-Terphenyl	20.000	20.590	-2.9	103	0.00
9		Anthracene	20.000	20.700	-3.5	103	0.00
10		Fluoranthene	20.000	20.622	-3.1	105	0.00
11		Pyrene	20.000	20.523	-2.6	104	0.00
12	S	P-Terphenyl	20.000	20.591	-3.0	104	0.00
13		Benzo(a)Anthracene	10.000	10.032	-0.3	104	0.00
14		Chrysene	10.000	9.938	0.6	104	0.00
15		Benzo(b)Fluoranthene	10.000	9.896	1.0	103	0.00
16		Benzo(k)Fluoranthene	10.000	9.909	0.9	104	0.00
17		Benzo(a) Pyrene	10.000	9.255	7.4	101	0.00
18		Dibenzo(a,h)anthracene	10.000	9.747	2.5	102	0.00

19	Benzo(g,h,i) Perylene	10.000	9.654	3.5	101	0.00
20	Indeno(1,2,3-cd)pyrene	10.000	9.752	2.5	101	-0.01

Average % D = 2.0

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AA010498.D 8310_32.M Mon May 06 13:20:48 2002

Evaluate Continuing Calibration Report

Signal #1 : F:\HPCHEM\1\DATA\0503PAH\AA010611.D\DAD1B.CH Vial: 10
Signal #2 : F:\HPCHEM\1\DATA\0503PAH\AA010611.D\DAD1A.CH
Acq On : 03-May-2002, 20:37:38 Operator: MIKEE
Sample : CC481-20 Inst : DAD
Misc : op4978,gaa488,1000,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Thu May 02 11:16:34 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	19.815	0.9	103	0.00
2		Acenaphthylene	20.000	19.899	0.5	103	0.00
3		1-Methyl Naphthalene	20.000	19.761	1.2	103	0.00
4		2-Methyl Naphthalene	20.000	20.020	-0.1	103	0.01
5		Acenaphthene	20.000	19.505	2.5	102	0.00
6		Fluorene	20.000	19.930	0.4	103	0.00
7		Phenanthrene	20.000	19.986	0.1	103	0.00
8	S	O-Terphenyl	20.000	20.209	-1.0	104	0.00
9		Anthracene	20.000	21.104	-5.5	105	0.00
10		Fluoranthene	20.000	19.460	2.7	102	0.00
11		Pyrene	20.000	19.976	0.1	105	0.00
12	S	P-Terphenyl	20.000	20.067	-0.3	104	0.00
13		Benzo(a)Anthracene	10.000	9.819	1.8	104	0.00
14		Chrysene	10.000	10.243	-2.4	104	0.00
15		Benzo(b)Fluoranthene	10.000	9.993	0.1	104	0.00
16		Benzo(k)Fluoranthene	10.000	10.079	-0.8	106	0.00
17		Benzo(a) Pyrene	10.000	9.499	5.0	101	0.00
18		Dibenzo(a,h)anthracene	10.000	9.847	1.5	105	-0.01
19		Benzo(g,h,i) Perylene	10.000	9.706	2.9	102	-0.02
20		Indeno(1,2,3-cd)pyrene	10.000	9.609	3.9	101	-0.02

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	20.429	-2.1	104	0.00
2		Acenaphthylene	20.000	20.124	-0.6	103	0.00
3		1-Methyl Naphthalene	20.000	20.526	-2.6	103	0.00
4		2-Methyl Naphthalene	20.000	20.871	-4.4	104	0.01
5		Acenaphthene	20.000	20.806	-4.0	102	0.00
6		Fluorene	20.000	20.188	-0.9	103	0.00
7		Phenanthrene	20.000	19.837	0.8	103	0.00
8	S	O-Terphenyl	20.000	20.720	-3.6	104	0.00
9		Anthracene	20.000	20.784	-3.9	103	0.00
10		Fluoranthene	20.000	20.715	-3.6	106	0.00
11		Pyrene	20.000	20.596	-3.0	105	0.00
12	S	P-Terphenyl	20.000	20.671	-3.4	104	0.00
13		Benzo(a)Anthracene	10.000	10.073	-0.7	104	0.00
14		Chrysene	10.000	9.967	0.3	104	0.00
15		Benzo(b)Fluoranthene	10.000	9.927	0.7	103	0.00
16		Benzo(k)Fluoranthene	10.000	9.961	0.4	104	0.00
17		Benzo(a) Pyrene	10.000	9.273	7.3	101	0.00
18		Dibenzo(a,h)anthracene	10.000	9.781	2.2	102	-0.01

19	Benzo(g,h,i) Perylene	10.000	9.683	3.2	101	-0.02
20	Indeno(1,2,3-cd)pyrene	10.000	9.732	2.7	101	-0.02

Average % D = 2.1

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AA010498.D 8310_32.M Mon May 06 13:20:48 2002

Evaluate Continuing Calibration Report

Signal #1 : F:\HPCHEM\1\DATA\0503PAH\AA010619.D\DAD1B.CH Vial: 10
Signal #2 : F:\HPCHEM\1\DATA\0503PAH\AA010619.D\DAD1A.CH
Acq On : 03-May-2002, 23:48:03 Operator: MIKEE
Sample : ECC481-20 Inst : DAD
Misc : op4978,gaa488,1000,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Thu May 02 11:16:34 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	19.747	1.3	102	0.00
2		Acenaphthylene	20.000	19.600	2.0	101	0.00
3		1-Methyl Naphthalene	20.000	19.701	1.5	102	0.00
4		2-Methyl Naphthalene	20.000	19.997	0.0	103	0.01
5		Acenaphthene	20.000	19.461	2.7	102	0.00
6		Fluorene	20.000	19.930	0.4	103	0.00
7		Phenanthrene	20.000	19.998	0.0	103	0.00
8	S	O-Terphenyl	20.000	20.243	-1.2	104	0.00
9		Anthracene	20.000	21.125	-5.6	105	0.00
10		Fluoranthene	20.000	19.470	2.7	102	0.00
11		Pyrene	20.000	20.005	-0.0	105	0.00
12	S	P-Terphenyl	20.000	20.105	-0.5	104	0.00
13		Benzo(a)Anthracene	10.000	9.819	1.8	104	-0.01
14		Chrysene	10.000	10.245	-2.4	104	-0.01
15		Benzo(b)Fluoranthene	10.000	10.018	-0.2	104	-0.01
16		Benzo(k)Fluoranthene	10.000	10.123	-1.2	107	-0.01
17		Benzo(a) Pyrene	10.000	9.539	4.6	102	-0.02
18		Dibenzo(a,h)anthracene	10.000	9.844	1.6	105	-0.02
19		Benzo(g,h,i) Perylene	10.000	9.729	2.7	102	-0.02
20		Indeno(1,2,3-cd)pyrene	10.000	9.590	4.1	101	-0.03

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	20.424	-2.1	104	0.00
2		Acenaphthylene	20.000	20.138	-0.7	103	0.00
3		1-Methyl Naphthalene	20.000	20.568	-2.8	104	0.00
4		2-Methyl Naphthalene	20.000	20.918	-4.6	104	0.01
5		Acenaphthene	20.000	20.850	-4.3	103	0.00
6		Fluorene	20.000	20.219	-1.1	103	0.00
7		Phenanthrene	20.000	19.839	0.8	103	0.00
8	S	O-Terphenyl	20.000	20.715	-3.6	104	0.00
9		Anthracene	20.000	20.619	-3.1	103	0.00
10		Fluoranthene	20.000	20.239	-1.2	103	0.00
11		Pyrene	20.000	20.617	-3.1	105	0.00
12	S	P-Terphenyl	20.000	20.704	-3.5	104	0.00
13		Benzo(a)Anthracene	10.000	10.079	-0.8	104	-0.01
14		Chrysene	10.000	9.976	0.2	104	-0.01
15		Benzo(b)Fluoranthene	10.000	9.841	1.6	102	-0.01
16		Benzo(k)Fluoranthene	10.000	9.948	0.5	104	-0.01
17		Benzo(a) Pyrene	10.000	9.280	7.2	101	-0.02
18		Dibenzo(a,h)anthracene	10.000	9.756	2.4	102	-0.02

19	Benzo(g,h,i) Perylene	10.000	9.698	3.0	102	-0.02
20	Indeno(1,2,3-cd)pyrene	10.000	9.762	2.4	101	-0.03

Average % D = 2.1

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AA010498.D 8310_32.M Mon May 06 13:20:49 2002

Evaluate Continuing Calibration Report

Signal #1 : F:\HPCHEM\1\DATA\0506PAH\AA010621.D\DAD1B.CH Vial: 2
Signal #2 : F:\HPCHEM\1\DATA\0506PAH\AA010621.D\DAD1A.CH
Acq On : 06-May-2002, 14:00:22 Operator: MIKEE
Sample : CC481-10 Inst : DAD
Misc : op4978,gaa489,1000,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Tue May 07 09:52:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	10.000	10.233	-2.3	102	0.02
2		Acenaphthylene	10.000	10.123	-1.2	103	0.02
3		1-Methyl Naphthalene	10.000	10.066	-0.7	100	0.02
4		2-Methyl Naphthalene	10.000	10.167	-1.7	101	0.02
5		Acenaphthene	10.000	9.870	1.3	98	0.02
6		Fluorene	10.000	10.253	-2.5	105	0.02
7		Phenanthrene	10.000	10.226	-2.3	104	0.01
8	S	O-Terphenyl	10.000	10.182	-1.8	103	0.01
9		Anthracene	10.000	10.585	-5.9	108	0.01
10		Fluoranthene	10.000	10.177	-1.8	100	0.01
11		Pyrene	10.000	10.346	-3.5	103	0.01
12	S	P-Terphenyl	10.000	10.264	-2.6	101	0.00
13		Benzo(a)Anthracene	5.000	5.031	-0.6	100	0.01
14		Chrysene	5.000	5.483	-9.7	104	0.00
15		Benzo(b)Fluoranthene	5.000	5.028	-0.6	102	0.00
16		Benzo(k)Fluoranthene	5.000	5.015	-0.3	102	0.00
17		Benzo(a) Pyrene	5.000	4.824	3.5	100	0.00
18		Dibenzo(a,h)anthracene	5.000	4.914	1.7	98	0.01
19		Benzo(g,h,i) Perylene	5.000	4.820	3.6	96	0.02
20		Indeno(1,2,3-cd)pyrene	5.000	4.681	6.4	94	0.01

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	10.000	10.496	-5.0	101	0.02
2		Acenaphthylene	10.000	10.359	-3.6	99	0.02
3		1-Methyl Naphthalene	10.000	10.504	-5.0	101	0.02
4		2-Methyl Naphthalene	10.000	10.713	-7.1	103	0.02
5		Acenaphthene	10.000	10.594	-5.9	100	0.02
6		Fluorene	10.000	10.432	-4.3	102	0.02
7		Phenanthrene	10.000	10.453	-4.5	103	0.01
8	S	O-Terphenyl	10.000	10.674	-6.7	102	0.01
9		Anthracene	10.000	11.374	-13.7	103	0.01
10		Fluoranthene	10.000	10.713	-7.1	102	0.01
11		Pyrene	10.000	10.484	-4.8	102	0.01
12	S	P-Terphenyl	10.000	10.647	-6.5	103	0.00
13		Benzo(a)Anthracene	5.000	5.159	-3.2	103	0.01
14		Chrysene	5.000	5.146	-2.9	103	0.00
15		Benzo(b)Fluoranthene	5.000	5.156	-3.1	105	0.00
16		Benzo(k)Fluoranthene	5.000	5.082	-1.6	102	0.00
17		Benzo(a) Pyrene	5.000	4.806	3.9	100	0.00
18		Dibenzo(a,h)anthracene	5.000	5.113	-2.3	101	0.01

19	Benzo(g,h,i) Perylene	5.000	4.974	0.5	100	0.02
20	Indeno(1,2,3-cd)pyrene	5.000	4.973	0.5	99	0.01

Average % D = 3.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AA010497.D 8310_32.M Tue May 07 09:57:40 2002

Evaluate Continuing Calibration Report

Signal #1 : F:\HPCHEM\1\DATA\0506PAH\AA010627.D\DAD1B.CH Vial: 8
Signal #2 : F:\HPCHEM\1\DATA\0506PAH\AA010627.D\DAD1A.CH
Acq On : 06-May-2002, 16:23:03 Operator: MIKEE
Sample : ECC481-20 Inst : DAD
Misc : op4978,gaa489,1000,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Tue May 07 09:52:27 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	20.333	-1.7	105	0.00
2		Acenaphthylene	20.000	20.334	-1.7	105	0.00
3		1-Methyl Naphthalene	20.000	20.238	-1.2	105	0.00
4		2-Methyl Naphthalene	20.000	20.508	-2.5	106	0.00
5		Acenaphthene	20.000	19.933	0.3	104	0.00
6		Fluorene	20.000	20.402	-2.0	105	0.00
7		Phenanthrene	20.000	20.425	-2.1	105	0.00
8	S	O-Terphenyl	20.000	20.530	-2.7	105	0.00
9		Anthracene	20.000	20.811	-4.1	103	0.00
10		Fluoranthene	20.000	20.169	-0.8	105	0.00
11		Pyrene	20.000	20.101	-0.5	105	0.00
12	S	P-Terphenyl	20.000	20.383	-1.9	106	0.00
13		Benzo(a)Anthracene	10.000	9.956	0.4	106	0.00
14		Chrysene	10.000	10.475	-4.7	106	0.00
15		Benzo(b)Fluoranthene	10.000	10.061	-0.6	105	0.00
16		Benzo(k)Fluoranthene	10.000	10.074	-0.7	106	0.00
17		Benzo(a) Pyrene	10.000	9.631	3.7	103	0.00
18		Dibenzo(a,h)anthracene	10.000	9.927	0.7	106	0.00
19		Benzo(g,h,i) Perylene	10.000	9.802	2.0	103	0.00
20		Indeno(1,2,3-cd)pyrene	10.000	9.578	4.2	101	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Naphthalene	20.000	21.025	-5.1	107	0.00
2		Acenaphthylene	20.000	20.696	-3.5	106	0.00
3		1-Methyl Naphthalene	20.000	21.115	-5.6	106	0.00
4		2-Methyl Naphthalene	20.000	21.472	-7.4	107	0.00
5		Acenaphthene	20.000	21.349	-6.7	105	0.00
6		Fluorene	20.000	20.742	-3.7	106	0.00
7		Phenanthrene	20.000	20.333	-1.7	106	0.00
8	S	O-Terphenyl	20.000	21.259	-6.3	106	0.00
9		Anthracene	20.000	21.033	-5.2	104	0.00
10		Fluoranthene	20.000	21.234	-6.2	108	0.00
11		Pyrene	20.000	20.849	-4.2	106	0.00
12	S	P-Terphenyl	20.000	21.046	-5.2	106	0.00
13		Benzo(a)Anthracene	10.000	10.243	-2.4	106	0.00
14		Chrysene	10.000	10.140	-1.4	106	0.00
15		Benzo(b)Fluoranthene	10.000	10.220	-2.2	106	0.00
16		Benzo(k)Fluoranthene	10.000	10.087	-0.9	105	0.00
17		Benzo(a) Pyrene	10.000	9.429	5.7	103	0.00
18		Dibenzo(a,h)anthracene	10.000	10.003	-0.0	105	0.00

19	Benzo(g,h,i) Perylene	10.000	9.928	0.7	104	0.00
20	Indeno(1,2,3-cd)pyrene	10.000	9.967	0.3	103	0.00

Average % D = 2.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AA010498.D 8310_32.M Tue May 07 09:57:58 2002

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4978-MB	AA010597.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488

The QC reported here applies to the following samples: **Method:** EPA 8310

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	67%	33-141%
92-94-4	p-Terphenyl	85%	31-122%

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4978-MB	AA010622.D	1	05/06/02	MRE	04/16/02	OP4978	GAA489

The QC reported here applies to the following samples: **Method:** EPA 8310

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	67%	33-141%
92-94-4	p-Terphenyl	85%	31-122%

Semivolatile Surrogate Recovery Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Method: EPA 8310 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F12863-1	AA010598.D	78.0	71.0
F12863-2	AA010623.D	79.0	65.0
F12863-3	AA010624.D	82.0	69.0
F12863-4	AA010601.D	76.0	73.0
F12863-5	AA010602.D	78.0	61.0
F12863-6	AA010604.D	72.0	65.0
~~F12863-7~~	~~AA010625.D~~	~~17.0*~~	~~18.0*~~
F12863-7	AA010605.D	17.0* [b]	18.0* [b]
F12863-8	AA010606.D	87.0	78.0
F12863-9	AA010607.D	80.0	54.0
F12863-10	AA010626.D	81.0	65.0
F12863-11	AA010609.D	82.0	81.0
F12863-12	AA010610.D	126.0	128.0*
F12863-13	AA010612.D	73.0	76.0
F12863-14	AA010613.D	87.0	72.0
F12863-15	AA010614.D	71.0	74.0
F12863-16	AA010615.D	76.0	81.0
F12863-17	AA010616.D	77.0	84.0
F12863-18	AA010617.D	76.0	75.0
F12863-19	AA010618.D	79.0	74.0
OP4978-BS	AA010596.D	88.0	86.0
OP4978-MB	AA010597.D	67.0	85.0
OP4978-MB	AA010622.D	67.0	85.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	33-141%
S2 = p-Terphenyl	31-122%

(a) Recovery from GC signal #1
(b) Insufficient sample for re-extraction.

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4978-BS [a]	AA010596.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488

The QC reported here applies to the following samples: **Method:** EPA 8310

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	16.7	84	53-120
208-96-8	Acenaphthylene	20	16.8	84	53-120
120-12-7	Anthracene	20	18.5	93	58-120
56-55-3	Benzo(a)anthracene	10	8.8	88	70-120
50-32-8	Benzo(a)pyrene	10	8.5	85	50-122
205-99-2	Benzo(b)fluoranthene	10	9.0	90	62-120
191-24-2	Benzo(g,h,i)perylene	10	8.8	88	32-120
207-08-9	Benzo(k)fluoranthene	10	9.1	91	54-120
218-01-9	Chrysene	10	9.3	93	68-120
53-70-3	Dibenzo(a,h)anthracene	10	8.9	89	26-120
206-44-0	Fluoranthene	20	17.7	89	69-120
86-73-7	Fluorene	20	17.5	88	59-120
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.7	87	33-120
91-20-3	Naphthalene	20	16.1	81	48-120
90-12-0	1-Methylnaphthalene	20	16.4	82	48-120
91-57-6	2-Methylnaphthalene	20	16.6	83	48-120
85-01-8	Phenanthrene	20	17.7	89	65-120
129-00-0	Pyrene	20	18.0	90	69-120

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	33-141%
92-94-4	p-Terphenyl	86%	31-122%

(a) Insufficient sample for MS/MSD.

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT Panama City CTO-184		JOB NUMBER Job - 2834 SDG - F12863	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY	DATE 21-May-02

Sample 13GLM012I01 Acenaphthene = 4.3 ug/L

$$\frac{1345989}{3.103 \times 10^5} = 4.34 \text{ — OK}$$

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA010607.D	1	05/03/02	MRE	04/16/02	OP4978	GAA488
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	4.3	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	1.4	2.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		33-141%
92-94-4	p-Terphenyl	54%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Signal #1 : F:\HPCHEM\1\DATA\0503PAH\AA010607.D\DAD1B.CH Vial: 14
Signal #2 : F:\HPCHEM\1\DATA\0503PAH\AA010607.D\DAD1A.CH
Acq On : 03-May-2002, 19:02:26 Operator: MIKEE
Sample : F12863-9 Inst : DAD
Misc : op4978,gaa488,980,,,1,,water Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: May 6 13:14 2002 Quant Results File: 8310_32.RES

Quant Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Mon May 06 13:08:31 2002
Response via : Initial Calibration
DataAcq Meth : 8310_32.M

Volume Inj. : 10ul
Signal #1 Phase : Envirosep PP Signal #2 Phase: Envirosep PP
Signal #1 Info : DAD 270nm Signal #2 Info : DAD 254/300nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
	System Monitoring Compounds						
8) S	O-Terphenyl	7.79	7.79	5965696	9624694	15.935	15.772
	Spiked Amount 20.000 Range 33 - 141 Recovery =					79.68%	78.86%
12) S	P-Terphenyl	10.10	10.10	16145580	8082816	10.847	11.122
	Spiked Amount 20.000 Range 31 - 122 Recovery =					54.24%	55.61%
	Target Compounds						
1)	Naphthalene	0.00	0.00	0	0	N.D.	N.D.
2)	Acenaphthylene	0.00	0.00	0	0	N.D.	N.D.
3)	1-Methyl Naphtha	0.00	0.00	0	0	N.D.	N.D.
4)	2-Methyl Naphtha	0.00	0.00	0	0	N.D. d	N.D. d
5)	Acenaphthene	6.62	6.61	1345989	368612	4.338	3.732mvp
6)	Fluorene	6.85	6.85	1535443	1725836	1.430	1.406
7)	Phenanthrene	0.00	0.00	0	0	N.D. d	N.D. d
9)	Anthracene	0.00	0.00	0	0	N.D. d	N.D. d
10)	Fluoranthene	0.00	0.00	0	0	N.D.	N.D.
11)	Pyrene	0.00	0.00	0	0	N.D.	N.D.
13)	Benzo(a)Anthrace	0.00	0.00	0	0	N.D.	N.D.
14)	Chrysene	0.00	0.00	0	0	N.D. d	N.D. d
15)	Benzo(b)Fluorant	0.00	0.00	0	0	N.D. d	N.D. d
16)	Benzo(k)Fluorant	0.00	0.00	0	0	N.D.	N.D.
17)	Benzo(a) Pyrene	0.00	0.00	0	0	N.D.	N.D.
18)	Dibenzo(a,h)anth	0.00	0.00	0	0	N.D.	N.D.
19)	Benzo(g,h,i) Per	0.00	0.00	0	0	N.D.	N.D.
20)	Indeno(1,2,3-cd)	0.00	0.00	0	0	N.D.	N.D.

MVP 5/7/02

00853

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Response Factor Report DAD

Method : C:\HPCHEM\1\METHODS\8310_32.M (Chemstation Integrator)
Title : PAH's BY EPA 8310
Last Update : Mon Apr 22 14:35:03 2002
Response via : Initial Calibration

MLR 4/22/02

Calibration Files
L1 =AA010501.D L2 =AA010496.D L3 =AA010497.D
L4 =AA010498.D L5 =AA010499.D L6 =AA010500.D

		Compound	L1	L2	L3	L4	L5	L6	Avg		%RSD
1)		Naphthalene	5.104	4.685	4.542	4.365	4.197	4.256	4.525	E5	7.44
2)		Acenaphthylene	2.100	1.781	1.754	1.735	1.672	1.701	1.790	E5	8.74
3)		1-Methyl Naphthalen	4.429	4.072	3.961	3.787	3.643	3.704	3.933	E5	7.41
4)		2-Methyl Naphthalen	4.265	3.995	3.873	3.733	3.594	3.655	3.853	E5	6.48
5)		Acenaphthene	3.516	3.242	3.133	2.968	2.853	2.906	3.103	E5	8.03
6)		Fluorene	1.253	1.101	1.052	1.038	0.993	1.004	1.073	E6	8.94
7)		Phenanthrene	1.092	0.980	0.934	0.921	0.883	0.897	0.951	E6	8.08
8)	S	O-Terphenyl	4.211	3.836	3.685	3.651	3.506	3.572	3.744	E5	6.81
9)		Anthracene		1.012	0.891	0.918	0.856	0.874	0.910	E5	6.75
10)		Fluoranthene	9.555	9.199	8.764	8.253	7.902	8.025	8.616	E5	7.76
11)		Pyrene	1.461	1.335	1.251	1.188	1.117	1.112	1.244	E6	10.89
12)	S	P-Terphenyl	1.644	1.560	1.514	1.434	1.378	1.400	1.488	E6	6.93
13)		Benzo(a)Anthracene	2.811	2.490	2.383	2.230	2.132	2.157	2.367	E6	10.87
14)		Chrysene		3.205	2.945	2.749	2.535	2.487	2.784	E6	10.68
15)		Benzo(b)Fluoranthen	1.445	1.281	1.221	1.194	1.148	1.171	1.243	E6	8.75
16)		Benzo(k)Fluoranthen	8.859	7.790	7.386	7.120	6.874	6.999	7.505	E5	9.85
17)		Benzo(a) Pyrene	1.936	1.553	1.471	1.436	1.382	1.406	1.531	E6	13.54
18)		Dibenzo(a,h)anthrac	1.427	1.246	1.194	1.114	1.072	1.090	1.190	E6	11.19
19)		Benzo(g,h,i) Peryle	9.828	8.978	8.635	8.231	7.937	8.092	8.617	E5	8.18
20)		Indeno(1,2,3-cd)pyr	8.176	7.135	6.872	6.579	6.323	6.443	6.921	E5	9.85

Signal #2 Calibration Files
L1 =AA010501.D L2 =AA010496.D L3 =AA010497.D
L4 =AA010498.D L5 =AA010499.D L6 =AA010500.D

		Compound	L1	L2	L3	L4	L5	L6	Avg		%RSD
1)		Naphthalene		2.891	2.793	2.648	2.537	2.582	2.690	E5	5.50
2)		Acenaphthylene	1.728	1.888	1.821	1.705	1.642	1.675	1.743	E5	5.36
3)		1-Methyl Naphthalen	1.543	1.752	1.676	1.604	1.547	1.580	1.617	E5	5.07
4)		2-Methyl Naphthalen	2.068	2.366	2.329	2.246	2.166	2.209	2.231	E5	4.89
5)		Acenaphthene	0.893	1.019	1.048	1.004	0.969	0.992	0.988	E5	5.39
6)		Fluorene	1.312	1.270	1.249	1.200	1.155	1.176	1.227	E6	4.89
7)		Phenanthrene	3.639	3.375	3.236	3.055	2.888	2.882	3.179	E6	9.34
8)	S	O-Terphenyl		6.176	6.362	6.105	5.882	5.987	6.102	E5	3.01
9)		Anthracene	8.050	7.141	5.831	4.681	3.914	3.502	5.520	E6	~~32.89~~ QUAD MLR 4/22/02
10)		Fluoranthene	8.285	8.341	8.522	7.941	7.629	7.954	8.112	E5	4.04
11)		Pyrene	7.785	7.587	7.570	7.276	6.991	7.123	7.389	E5	4.15
12)	S	P-Terphenyl		7.582	7.517	7.225	6.951	7.061	7.267	E5	3.80
13)		Benzo(a)Anthracene	1.969	1.754	1.745	1.681	1.619	1.652	1.737	E6	7.21
14)		Chrysene	2.996	2.662	2.586	2.470	2.364	2.398	2.579	E6	9.04
15)		Benzo(b)Fluoranthen	1.269	1.153	1.091	1.068	1.024	1.050	1.109	E6	8.08
16)		Benzo(k)Fluoranthen	2.048	1.799	1.743	1.680	1.617	1.647	1.756	E6	8.98
17)		Benzo(a) Pyrene	1.483	1.074	1.033	0.986	0.939	0.947	1.077	E6	19.09
18)		Dibenzo(a,h)anthrac	3.102	2.764	2.661	2.520	2.384	2.384	2.636	E6	10.39
19)		Benzo(g,h,i) Peryle	1.637	1.412	1.382	1.325	1.275	1.297	1.388	E6	9.53
20)		Indeno(1,2,3-cd)pyr	1.083	0.975	0.960	0.925	0.890	0.907	0.957	E6	7.30

Average % RSD = 8.6

00908

11/23/12

Sequence Name: C:\HPCHEM\2\SEQUENCE\041202.S
Comment:
Operator: RachidA
Data Path: C:\HPCHEM\2\DATA\041202\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Calibration	100	XY008336	DGMEE	IC114-1.5
2	Calibration	100	XY008337	DGMEE	IC114-15
3	Calibration	100	XY008338	DGMEE	ICC114-100
4	Calibration	100	XY008339	DGMEE	IC114-500
5	Calibration	100	XY008340	DGMEE	IC114-1000
6	Calibration	100	XY008341	DGMEE	IC114-5000
7	Calibration	100	XY008342	DGMEE	IC114-10000
8	Spike	100	XY008343	DGMEE	ICV-1000
9	Spike	100	XY008344	DGMEE	BS
10	Blank	100	XY008345	DGMEE	MB
11	Blank	100	XY008346	DGMEE	Helium
12	Sample	100	XY008347	DGMEE	F12863-7
13	Sample	100	XY008348	DGMEE	F12863-8
14	Duplicate	100	XY008349	DGMEE	F12863-7DUP
15	Sample	100	XY008350	DGMEE	F12863-9
16	Sample	100	XY008351	DGMEE	F12863-10
17	DailyCal	100	XY008352	DGMEE	ECC114-1000ppmv
18					

Dissolved Gases Calculation Worksheet

Data File Name **xy008360.d**
Date Acquired **04/16/20 -1:2:**
Sample Name **F12863-14**
Sample Multiplier **1**
Temperature (C) 24
Headspace (cc) 5
Sample Volume (mL) 38

Name	MW	Molar Volume (L)	Water (g-moles/L)	Temp (K)	Corrected Gas density	Peak Area	Helium Blank	Blank Corrected Result (ppmV)	Dilution Adjusted Result (ppmV)	Water (ug/L)	Henry's Constant	Saturation (ug/L)	Total (ug/L)
Methane	16	22.4	55.5	297	24.37	64717835	0	6773.90	6773.90	585.20	40560	148.30	733.50
Ethylene	28	22.4	55.5	297	24.37	0		0.00	0.00	0.00	11160	0.00	0.00
Ethane	30	22.4	55.5	297	24.37	0		0.00	0.00	0.00	29420	0.00	0.00

Definitions

Molar Volume (L)	The volume of 1 mole of a gas at standard temperature and pressure (STP).
Water g/Moles	One liter of water is equal to 55.5g-moles.
Corrected Gas Density	Gas density corrected for temperature is equal to (molar volume) x (temp-k/273)
Headspace Concentration	Is equal to (ppmv reading) x (mw/corrected gas density).
Water Concentration	Is equal to headspace concentration (ug/L) x headspace volume / sample volume.
Saturation Concentration	Gas which remains at equilibrium in the sample is equal to (headspace conc-ppm) x (mw) x 55.5/Henry's Constant.

Henry's Constants

	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43460	44180	44900
Ethylene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200

00709

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Initial Calibration

Calibration Files
1 =XY008336.D 2 =XY008337.D 3 =XY008338.D
4 =XY008339.D 5 =XY008340.D 6 =XY008341.D 7 =XY008342.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane	1.066	0.864	0.983	0.953	0.878	0.989	0.955	E4	7.88
2) Ethylene	1.938	1.681	1.912	1.848	1.682	1.876	1.823	E4	6.23
3) Ethane	1.938	1.992	1.885	1.832	1.706	1.905	1.876	E4	5.28

Average % RSD = 6.5

(#) = Out of Range

DGMEE.M Tue Apr 16 09:14:01 2002 QRXY

RSD < 30%
RPM
04-16-02

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041202\XY008343.D
Acq On : 12 Apr 2002 1:30 pm
Sample : ICV-1000
Misc : gc1758,gxy114,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	707.356	29.3	71	-0.07
2	Ethylene	1000.000	768.401	23.2	76	-0.08
3	Ethane	1000.000	714.662	28.5	73	-0.07

Average % D = 26.986

00788

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041202\XY008352.D Vial: 100
Acq On : 12 Apr 2002 4:24 pm Operator: RachidA
Sample : ECC114-1000ppmv Inst : VOA5
Misc : gc1758,gxy114,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	997.455	0.3	100	-0.07
2	Ethylene	1000.000	1023.422	-2.3	101	-0.06
3	Ethane	1000.000	987.790	1.2	101	-0.06

Average % D = 1.3

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008340.D DGMEE.M Tue Apr 16 09:14:25 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041602\XY008353.D
Acq On : 16 Apr 2002 9:18 am
Sample : CC114-500ppmv
Misc : gc1758,gxy115,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	527.803	-5.6	103	-0.06
2	Ethylene	500.000	538.591	-7.7	103	-0.07
3	Ethane	500.000	518.925	-3.8	103	-0.07

Average % D = 5.7

(#) = Out of Range
XY008339.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Wed Apr 17 09:05:59 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041602\XY008365.D Vial: 100
Acq On : 16 Apr 2002 3:53 pm Operator: RachidA
Sample : CC114-1000ppmv Inst : VOA5
Misc : gc1758,gxy115,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	953.864	4.6	96	-0.13
2	Ethylene	1000.000	994.200	0.6	98	-0.19
3	Ethane	1000.000	961.624	3.8	98	-0.19

Average % D = 3.0

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008340.D DGMEE.M Wed Apr 17 09:06:41 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041602\XY008369.D Vial: 100
Acq On : 16 Apr 2002 4:41 pm Operator: RachidA
Sample : ECC414-5000ppmv Inst : VOA5
Misc : gc1758,gxy115,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	5000.000	4756.432	4.9	104	-0.15
2	Ethylene	5000.000	4763.777	4.7	103	-0.24
3	Ethane	5000.000	4701.094	6.0	103	-0.24

Average % D = 5.2

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008341.D DGMEE.M Wed Apr 17 09:07:21 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041702\XY008370.D Vial: 100
Acq On : 17 Apr 2002 7:59 am Operator: RachidA
Sample : CC114-500ppmv Inst : VOA5
Misc : gc1758,gxy116,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed May 08 13:20:16 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	448.592	10.3	86	-0.10
2	Ethylene	500.000	469.678	6.1	87	0.00
3	Ethane	500.000	457.287	8.5	88	-0.37

Average % D = 8.2962

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041702\XY008383.D Vial: 100
Acq On : 17 Apr 2002 2:31 pm Operator: RachidA
Sample : CC114-1000ppmv Inst : VOA5
Misc : gc1707,gxy116,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	1013.909	-1.4	102	-0.06
2	Ethylene	1000.000	1046.670	-4.7	103	-0.06
3	Ethane	1000.000	1015.248	-1.5	104	-0.05

Average % D = 2.5

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008340.D DGMEE.M Thu Apr 18 10:01:16 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041702\XY008391.D Vial: 100
Acq On : 17 Apr 2002 4:11 pm Operator: RachidA
Sample : ECC114-5000ppmv Inst : VOA5
Misc : gc1707,gxy116,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	5000.000	5149.479	-3.0	112	-0.15
2	Ethylene	5000.000	5332.970	-6.7	116	-0.16
3	Ethane	5000.000	5333.736	-6.7	117	-0.16

Average % D = 5.4

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008341.D DGMEE.M Thu Apr 18 10:02:13 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041702\XY008392.D Vial: 100
Acq On : 17 Apr 2002 4:22 pm Operator: RachidA
Sample : ECC114-1000ppmv Inst : VOA5
Misc : gc1707,gxy116,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	1061.200	-6.1	106	-0.10
2	Ethylene	1000.000	1088.369	-8.8	107	-0.10
3	Ethane	1000.000	1066.114	-6.6	109	-0.10

Average % D = 7.18943

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY114-MB	XY008345.D	1	04/12/02	RA	n/a	n/a	GXY114

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-7, F12863-8, F12863-9, F12863-10

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY115-MB	XY008356.D	1	04/16/02	RA	n/a	n/a	GXY115

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-11, F12863-12, F12863-13, F12863-14

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Method Blank Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY116-MB	XY008373.D	1	04/17/02	RA	n/a	n/a	GXY116

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY114-BS	XY008344.D	1	04/12/02	RA	n/a	n/a	GXY114

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-7, F12863-8, F12863-9, F12863-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	9.27	84	50-150
74-84-0	Ethane	22	18.6	85	50-150
74-85-1	Ethene	29	25.8	89	50-150

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY115-BS	XY008355.D	1	04/16/02	RA	n/a	n/a	GXY115

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-11, F12863-12, F12863-13, F12863-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.2	93	50-150
74-84-0	Ethane	22	20.1	91	50-150
74-85-1	Ethene	29	27.9	96	50-150

Blank Spike Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY116-BS	XY008372.D	1	04/17/02	RA	n/a	n/a	GXY116

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.8	98	50-150
74-84-0	Ethane	22	21.4	97	50-150
74-85-1	Ethene	29	29.6	102	50-150

Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-7DUP	XY008349.D	1	04/12/02	RA	n/a	n/a	GXY114
F12863-7	XY008347.D	1	04/12/02	RA	n/a	n/a	GXY114

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-7, F12863-8, F12863-9, F12863-10

CAS No.	Compound	F12863-7 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	300		346		14	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-11DUP	XY008363.D	1	04/16/02	RA	n/a	n/a	GXY115
F12863-11	XY008357.D	1	04/16/02	RA	n/a	n/a	GXY115

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-11, F12863-12, F12863-13, F12863-14

CAS No.	Compound	F12863-11 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	18.8		19.1		2	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

Duplicate Summary

Job Number: F12863
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12863-16DUP	XY008377.D	1	04/17/02	RA	n/a	n/a	GXY116
F12863-16	XY008375.D	1	04/17/02	RA	n/a	n/a	GXY116

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

CAS No.	Compound	F12863-16 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	12.7		9.81		26	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	0.84	J	0.62	J	30	30

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT Panama City CTO-184		JOB NUMBER Job-2834 SDG-F12878	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY	DATE 21-May-02

Sample 13GLM011S01

Methane = 734 ug/L

$$\frac{64717836}{0.955 \times 10^4} = 6776 \text{ ppmv}$$

$$(6776)\left(\frac{16}{24.37}\right) = (4449 \text{ ug/L})\left(\frac{5}{38}\right) = 585.4 \text{ ug/L}$$

(water conc.)

$$\frac{(6776)(16)(55.5)}{40560} = 148.4 \text{ ug/L}$$

(Saturation)

585.4 + 148.4 = 733.8 — OK

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008360.D	1	04/16/02	RA	n/a	n/a	GXY115
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	734	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\041602\XY008360.D Vial: 100
Acq On : 16 Apr 2002 2:38 pm Operator: RachidA
Sample : F12863-14 Inst : VOA5
Misc : gc1758,gxy115,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Apr 17 8:41 2002 Quant Results File: DGMEE.RES

Quant Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Fri Apr 12 13:05:31 2002
Response via : Initial Calibration
DataAcq Meth : DGMEE.M

Volume Inj. : manual
Signal Phase : Carboxen-1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.41	64717836	6773.904	ppmv
2)	Ethylene	0.00	0	N.D.	ppmv
3)	Ethane	0.00	0	N.D.	ppmv d

00708

(f)=RT Delta > 1/2 Window (m)=manual int.

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Initial Calibration

Calibration Files
1 =XY008336.D 2 =XY008337.D 3 =XY008338.D
4 =XY008339.D 5 =XY008340.D 6 =XY008341.D 7 =XY008342.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane	1.066	0.864	0.983	0.953	0.878	0.989	0.955 E4		7.88
2) Ethylene	1.938	1.681	1.912	1.848	1.682	1.876	1.823 E4		6.23
3) Ethane	1.938	1.992	1.885	1.832	1.706	1.905	1.876 E4		5.28

Average % RSD = 6.5

(#) = Out of Range

DGMEE.M Tue Apr 16 09:14:01 2002 QRXY

RSD < 30%
RFm
04.16.02

Dissolved Gases Calculation Worksheet

Data File Name xy008360.d
Date Acquired 04/16/20 -1:2:
Sample Name F12863-14
Sample Multiplier 1
Temperature (C) 24
Headspace (cc) 5
Sample Volume (mL) 38

Name	MW	Molar Volume (L)	Water (g-moles/L)	Temp (K)	Corrected Gas density	Peak Area	Helium Blank	Blank Corrected Result (ppmV)	Dilution Adjusted Result (ppmV)	Water (ug/L)	Henry's Constant	Saturation (ug/L)	Total (ug/L)
Methane	16	22.4	55.5	297	24.37	64717835	0	6773.90	6773.90	585.20	40560	148.30	733.50
Ethylene	28	22.4	55.5	297	24.37	0		0.00	0.00	0.00	11160	0.00	0.00
Ethane	30	22.4	55.5	297	24.37	0		0.00	0.00	0.00	29420	0.00	0.00

Definitions

Molar Volume (L)	The volume of 1 mole of a gas at standard temperature and pressure (STP).
Water g/Moles	One liter of water is equal to 55.5g-moles.
Corrected Gas Density	Gas density corrected for temperature is equal to (molar volume) x (temp-k/273)
Headspace Concentration	Is equal to (ppmv reading) x (mw/corrected gas density).
Water Concentration	Is equal to headspace concentration (ug/L) x headspace volume / sample volume.
Saturation Concentration	Gas which remains at equilibrium in the sample is equal to (headspace conc-ppm) x (mw) x 55.5/Henry's Constant.

Henry's Constants

	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43460	44180	44900
Ethylene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200

00709

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**MAY 24, 2002**
FROM:	**ETHAN G. LEE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – METALS AND MISCELLANEOUS PARAMETERS**
CSS PANAMA CITY – CTO 184
SAMPLE DELIVERY GROUP (SDG) – F12863

SAMPLES: 19/AQUEOUS/

13GLM011I01	13GLM011S01	13GLM012I01
13GLM014I01	13GLM015I01	13GLM015S01
13GLM016S01	13GLM04I01	13GLM04S01
13GLM05I01	13GLM05S01	13GLM06I01
13GLM06I01D	13GLM06S01	13GLM07I01
13GLM07S01	13GLM13I01	13GLM13S01
13GLM18S01		

Overview

The sample set for CSS Panama City, CTO 184, SDG F12863, consists of nineteen (19) aqueous environmental samples. One field duplicate pair (13GLM06I01D / 13GLM06I01) is included in this SDG.

All samples were analyzed for arsenic, calcium, magnesium, manganese, potassium, sodium, and miscellaneous parameters. The samples were collected by Tetra Tech NUS April 9-10, 2002 and analyzed by Accutest Laboratories Southeast, Inc. Metals analyses were conducted using method SW846 6010B. Chloride, nitrate, nitrite, and sulfate analyses were conducted using method EPA 300. Total Organic Carbon analyses were conducted using method EPA 415.1.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) methodologies.

These data were evaluated based on the following parameters:

- Data Completeness
- * Holding Times
- * Calibration Recoveries
- Laboratory Blank Analyses
- * ICP Interference
- * Matrix Spike/Matrix Spike Duplicate Recoveries
- * Laboratory Duplicate Results
- * Laboratory Control Sample Results
- ICP Serial Dilution Results
- * Detection Limits
- * Field Duplicate Results
- * Sample Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Calcium[1]	37.0 ug/L	185 ug/L
Magnesium	28.1 ug/L	140.5 ug/L
Potassium[1]	670 ug/L	3350 ug/L
Sodium	528 ug/L	2640 ug/L

[1] Maximum concentration found in laboratory preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results < Action Level were qualified (U) for blank contamination for potassium and sodium. All other analytes were not qualified because the sample values were greater than the action level.

Data Completeness

The nondetected sample values on Form I's for chloride, nitrate, nitrite, and sulfate, did not agree with electronic data deliverables (EDD's). Changes were made to the EDD's to agree with Form I's.

ICP Serial Dilution Noncompliance

The ICP Serial Dilution percent differences (%D's) for calcium, potassium, and sodium were greater than 10% and the original sample results were >50X IDL. Positive results (>IDL) were qualified as estimated (J).

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/preparation blanks. Several analytes were qualified due to ICP serial dilution noncompliance.

Other Factors Affecting Data Quality: Form I's and EDD's did not agree for miscellaneous parameters.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM011I01
samp_date	4/9/2002
lab_id	F12863-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	6580	J	I
MAGNESIUM	750		
MANGANESE	9.5		
POTASSIUM	2340	U	A
SODIUM	4570	J	I

nsample	13GLM011S01
samp_date	4/9/2002
lab_id	F12863-14
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	17100	J	I
MAGNESIUM	1330		
MANGANESE	17.8		
POTASSIUM	2680	U	A
SODIUM	4540	J	I

nsample	13GLM012I01
samp_date	4/9/2002
lab_id	F12863-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	9.6		
CALCIUM	4750	J	I
MAGNESIUM	1650		
MANGANESE	32.2		
POTASSIUM	3700	J	I
SODIUM	4460	J	I

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM014I01
samp_date	4/9/2002
lab_id	F12863-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	311	J	I
MAGNESIUM	368		
MANGANESE	19.6		
POTASSIUM	1750	U	A
SODIUM	4400	J	I

nsample	13GLM015I01
samp_date	4/10/2002
lab_id	F12863-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	4.1		
CALCIUM	1380	J	I
MAGNESIUM	820		
MANGANESE	12.5		
POTASSIUM	2460	U	A
SODIUM	5210	J	I

nsample	13GLM015S01
samp_date	4/10/2002
lab_id	F12863-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	30200	J	I
MAGNESIUM	2820		
MANGANESE	2.1		
POTASSIUM	2010	U	A
SODIUM	10700	J	I

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM016S01
samp_date	4/10/2002
lab_id	F12863-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	5930	J	I
MAGNESIUM	3970		
MANGANESE	2.2		
POTASSIUM	4580	J	I
SODIUM	12400	J	I

nsample	13GLM04I01
samp_date	4/9/2002
lab_id	F12863-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	9.3		
CALCIUM	4960	J	I
MAGNESIUM	1290		
MANGANESE	12.8		
POTASSIUM	3140	U	A
SODIUM	3720	J	I

nsample	13GLM04S01
samp_date	4/9/2002
lab_id	F12863-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	22400	J	I
MAGNESIUM	730		
MANGANESE	29.6		
POTASSIUM	2280	U	A
SODIUM	3410	J	I

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM05I01
samp_date	4/9/2002
lab_id	F12863-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	3710	J	I
MAGNESIUM	935		
MANGANESE	5.8		
POTASSIUM	1110	U	A
SODIUM	3250	J	I

nsample	13GLM05S01
samp_date	4/9/2002
lab_id	F12863-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	7110	J	I
MAGNESIUM	553		
MANGANESE	0.16	U	
POTASSIUM	1100	U	A
SODIUM	1990	U	A

nsample	13GLM06I01
samp_date	4/10/2002
lab_id	F12863-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	4.1		
CALCIUM	1670	J	I
MAGNESIUM	1390		
MANGANESE	9.4		
POTASSIUM	2410	U	A
SODIUM	4680	J	I

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM06I01D
samp_date	4/10/2002
lab_id	F12863-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
ARSENIC	3.5		
CALCIUM	1660	J	I
MAGNESIUM	1380		
MANGANESE	9.4		
POTASSIUM	2410	U	A
SODIUM	4740	J	I

nsample	13GLM06S01
samp_date	4/10/2002
lab_id	F12863-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	3010	J	I
MAGNESIUM	2100		
MANGANESE	1.2		
POTASSIUM	2980	U	A
SODIUM	9150	J	I

nsample	13GLM07I01
samp_date	4/10/2002
lab_id	F12863-17
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	2610	J	I
MAGNESIUM	761		
MANGANESE	2.8		
POTASSIUM	1520	U	A
SODIUM	2600	U	A

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM07S01
samp_date	4/10/2002
lab_id	F12863-18
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	11200	J	I
MAGNESIUM	5110		
MANGANESE	0.72		
POTASSIUM	2690	U	A
SODIUM	25000	J	I

nsample	13GLM13I01
samp_date	4/10/2002
lab_id	F12863-16
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	2860	J	I
MAGNESIUM	504		
MANGANESE	53.5		
POTASSIUM	1680	U	A
SODIUM	2550	U	A

nsample	13GLM13S01
samp_date	4/10/2002
lab_id	F12863-15
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	10300	J	I
MAGNESIUM	1270		
MANGANESE	1.8		
POTASSIUM	1830	U	A
SODIUM	5630	J	I

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: M

nsample	13GLM18S01
samp_date	4/10/2002
lab_id	F12863-19
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	10200	J	I
MAGNESIUM	957		
MANGANESE	3.6		
POTASSIUM	1540	U	A
SODIUM	2360	U	A

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM011I01
samp_date	4/9/2002
lab_id	F12863-13
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	6.2		

nsample	13GLM011S01
samp_date	4/9/2002
lab_id	F12863-14
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	17.2		

nsample	13GLM012I01
samp_date	4/9/2002
lab_id	F12863-9
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	11.0		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM014I01
samp_date	4/9/2002
lab_id	F12863-10
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	10.2		

nsample	13GLM015I01
samp_date	4/10/2002
lab_id	F12863-5
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	10.8		

nsample	13GLM015S01
samp_date	4/10/2002
lab_id	F12863-4
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	23.3		
NITRATE	3.5		
NITRITE	0.10	UJ	D
SULFATE	24.6		
TOTAL ORGANIC CARBON	15.6		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM016S01
samp_date	4/10/2002
lab_id	F12863-6
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	26.8		
NITRATE	0.57		
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	15.0		

nsample	13GLM04I01
samp_date	4/9/2002
lab_id	F12863-7
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	13.8		

nsample	13GLM04S01
samp_date	4/9/2002
lab_id	F12863-8
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.32		
NITRITE	0.10	UJ	D
SULFATE	21.5		
TOTAL ORGANIC CARBON	8.4		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM05I01
samp_date	4/9/2002
lab_id	F12863-11
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	5.2		

nsample	13GLM05S01
samp_date	4/9/2002
lab_id	F12863-12
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	5.0		

nsample	13GLM06I01
samp_date	4/10/2002
lab_id	F12863-2
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	9.2		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM06I01D
samp_date	4/10/2002
lab_id	F12863-3
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	13GLM06I01

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	9.6		

nsample	13GLM06S01
samp_date	4/10/2002
lab_id	F12863-1
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.44		
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	17.2		

nsample	13GLM07I01
samp_date	4/10/2002
lab_id	F12863-17
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	5.8		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM07S01
samp_date	4/10/2002
lab_id	F12863-18
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	52.4		
NITRATE	0.28		
NITRITE	0.10	UJ	D
SULFATE	41.4		
TOTAL ORGANIC CARBON	24.2		

nsample	13GLM13I01
samp_date	4/10/2002
lab_id	F12863-16
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	6.6		

nsample	13GLM13S01
samp_date	4/10/2002
lab_id	F12863-15
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	12.4		

PROJ_NO: 2834

SDG: F12863 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM18S01
samp_date	4/10/2002
lab_id	F12863-19
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.49		
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	5.0		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	6580	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	750 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	9.5 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2340 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4570 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	17100	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1330 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	17.8	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2680 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4540 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9.6 B	10	2.8	ug/l	1	04/12/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	4750	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1650 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	32.2	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	3700 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4460 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	311 B	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	368 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	19.6	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1750 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4400 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.1 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	1380	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	820 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	12.5 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2460 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	5210	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	30200	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	2820 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	2.1 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2010 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	10700	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	5930	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	3970 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	2.2 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	4580 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	12400	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9.3 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	4960	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1290 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	12.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	3140 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	3720 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	22400	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	730 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	29.6	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2280 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	3410 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	3710	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	935 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	5.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1110 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	3250 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	7110	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	553 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	0.16 U	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1100 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	1990 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.1 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	1670	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1390 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	9.4 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2410 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4680 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.5 B	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	1660	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1380 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	9.4 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2410 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	4740 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	3010	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	2100 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	1.2 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2980 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	9150	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but <RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	2610	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	761 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	2.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1520 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	2600 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	11200	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	5110	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	0.72 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	2690 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	25000	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	2860	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	504 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	53.5	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1680 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	2550 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	10300	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	1270 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	1.8 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1830 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	5630	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Calcium	10200	1000	3.8	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Magnesium	957 B	5000	9.9	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Manganese	3.6 B	15	0.16	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Potassium	1540 B	5000	14	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A
Sodium	2360 B	5000	150	ug/l	1	04/12/02	04/15/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011I01		
Lab Sample ID:	F12863-13	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	6.2	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM011S01		
Lab Sample ID:	F12863-14	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	17.2	4.0	mg/l	4	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM012I01		
Lab Sample ID:	F12863-9	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	11.0	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM014I01		
Lab Sample ID:	F12863-10	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	10.2	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015I01		
Lab Sample ID:	F12863-5	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	10.8	4.0	mg/l	4	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	23.3	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	3.5	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	24.6	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM015S01		
Lab Sample ID:	F12863-4	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	15.6	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	26.8	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.57	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM016S01		
Lab Sample ID:	F12863-6	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	15.0	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04I01		
Lab Sample ID:	F12863-7	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	13.8	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.32	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	21.5	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM04S01		
Lab Sample ID:	F12863-8	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	8.4	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05I01		
Lab Sample ID:	F12863-11	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	5.2	4.0	mg/l	4	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM05S01		
Lab Sample ID:	F12863-12	**Date Sampled:**	04/09/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	5.0	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01		
Lab Sample ID:	F12863-2	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	9.2	4.0	mg/l	4	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06I01D		
Lab Sample ID:	F12863-3	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	9.6	4.0	mg/l	4	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.44	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/16/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM06S01		
Lab Sample ID:	F12863-1	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	17.2	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07I01		
Lab Sample ID:	F12863-17	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	5.8	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	52.4	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.28	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	41.4	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM07S01		
Lab Sample ID:	F12863-18	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	24.2	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056

01111

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13I01		
Lab Sample ID:	F12863-16	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	6.6	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Chloride	<20	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02 LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02 LL	EPA 300/SW846 9056

01118

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM13S01		
Lab Sample ID:	F12863-15	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	12.4	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.49	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/11/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/18/02	LL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18S01		
Lab Sample ID:	F12863-19	**Date Sampled:**	04/10/02
Matrix:	AQ - Ground Water	**Date Received:**	04/11/02
		Percent Solids:	n/a
Project:	TETRFLTA: CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	5.0	2.0	mg/l	2	05/02/02 LN	EPA 415.1

RL = Reporting Limit

APPENDIX C
SUPPORT DOCUMENTATION

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12863
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY: TALLAHASSEE STATE: FL ZIP: 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC-1
PROJECT NO.: N2834
FAX #:

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	/	TCL VOAs (8260B)	TCL SVOCs/PAHs (8270C)	TAL Metals	Dissolved Gases	TOC	Anions (NO2, NO3, SO4, Cl)						LAB USE ONLY
1	13GLM06501	4/10/02	08:43	MTA/JT	GW	11	7		1		3		3	2	1	3	1	1						
2	13GLM06I01	4/10/02	09:37	↓	GW	11	7		1		3		3	2	1	3	1	1						
3	13GLM06I01D	4/10/02	09:37	↓	GW	11	7		1		3		3	2	1	3	1	1						
4	13GLM01550 1	4/10/02	11:55	MTA/JT	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
5	13GLM015I01	4/10/02	12:37	↓	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
6	13GLM016501	4/10/02	15:05	↓	GW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
	~~13GLM016I01~~	~~4/10/02~~																						

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	4/10/02 1200	1.	2.	4/11/02 930	2. Miranda Dampat
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4. 113
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 2.0 C
5.		5.			

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: 412863
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PANAMA CITY RFI
LOCATION: AOC 1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOCs (8260B)	TCL SVOCs/PAHs (8270)	Metals (As, Na, Mg, Cu, K)	Dissolved Gases	NO2/NO3/SO4/Cl	TOC	LAB USE ONLY
1)	13GLM04I01	4/9/02	11:20	MTA JJ	GW	11	7	/	1	/	3	3	2	1	3	1	1	
2)	13GLM04S01	4/9/02	10:57	MTA JJ	GW	11	7	/	1	/	3	3	2	1	3	1	1	
3)	13GLM012I01	4/9/02	13:25	MTA JJ	GW	11	7	/	1	/	3	3	2	1	3	1	1	
4)	13GLM014I01	4/9/02	16:55	MTA JJ	GW	11	7	/	1	/	3	3	2	1	3	1	1	
5)	13GLM05I01		1600	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	
6)	13GLM05S01		1645	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	
7)	13GLM011I01		1030	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	
8)	13GLM011S01		1120	JB	GW	11	7	/	1	/	3	3	2	1	3	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	4/10/02 1700	1.	2.	4/11/02 930	2. [signature]
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 2/3
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 2.0 C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12803
ACCUTEST QUOTE #: CONT D

CLIENT INFORMATION

NAME: Tetra Tech NUS Inc
ADDRESS: 1401 Oven Park Dr #201
CITY, STATE, ZIP: Tallahassee FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 3824
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

	ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC/PAH	TOC	Metals	Cl, SO4, NO2, NO3	Dissolved Gases	LAB USE ONLY
15	9)	13GLM13S01	4/10/02	1200	JB	GW	11	X	X	X	X	X	3	2	1	1	1	3	
16	10)	13GLM13I01		1230				X	X			X	3	2	1	1	1	3	
17	11)	13GLM07I01		0930				X	X			X	3	2	1	1	1	3	
18	12)	13GLM07S01		0845				X	X			X	3	2	1	1	1	3	
19	13)	13GLM18S01		1515				X	X			X	3	2	1	1	1	3	

mb 4/11/02

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME: 1700 4/10/02	RECEIVED BY: 1.	RELINQUISHED BY: 2.	DATE TIME: 4/11/02 930	RECEIVED BY: 2. C Miranda Sanport
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4. 3/3
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

F12863

HOLDING TIME

05/15/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	CL	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	CL	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
%	13GLM015S01	GP3117-S2	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	CL	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	CL	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	CL	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM18S01	F12863-19	NORMAL	F12863	CL	04/10/02	04/16/02	04/18/02	6	2	8
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
%	13GLM04I01	F12863-7DUP	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	ETHA	04/09/02	/ /	04/12/02	0	0	3
%	13GLM05I01	F12863-11DUP	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	ETHA	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06S01	F12863-1	NORMAL	F12863	ETHA	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
%	13GLM13I01	F12863-16DUP	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	ETHA	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
%	13GLM04I01	F12863-7DUP	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	ETHE	04/09/02	/ /	04/12/02	0	0	3
%	13GLM05I01	F12863-11DUP	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	ETHE	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM06S01	F12863-1	NORMAL	F12863	ETHE	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
%	13GLM13I01	F12863-16DUP	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	ETHE	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM04I01	F12863-7	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM05I01	F12863-11	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	M	04/09/02	04/12/02	04/15/02	3	3	6
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
%	13GLM06S01	MP4336-SD1	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM13I01	F12863-16	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	M	04/10/02	04/12/02	04/15/02	2	3	5
UG/L	13GLM011I01	F12863-13	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM011S01	F12863-14	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM014I01	F12863-10	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM015I01	F12863-5	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM015S01	F12863-4	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM016S01	F12863-6	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
%	13GLM04I01	F12863-7DUP	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
UG/L	13GLM04S01	F12863-8	NORMAL	F12863	METH	04/09/02	/ /	04/12/02	0	0	3
%	13GLM05I01	F12863-11DUP	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM05S01	F12863-12	NORMAL	F12863	METH	04/09/02	/ /	04/16/02	0	0	7
UG/L	13GLM06I01	F12863-2	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM06S01	F12863-1	NORMAL	F12863	METH	04/10/02	/ /	04/16/02	0	0	6
UG/L	13GLM07I01	F12863-17	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM07S01	F12863-18	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
%	13GLM13I01	F12863-16DUP	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM13S01	F12863-15	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
UG/L	13GLM18S01	F12863-19	NORMAL	F12863	METH	04/10/02	/ /	04/17/02	0	0	7
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM015S01	F12863-4	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	NTA	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
%	13GLM18S01	GP3107-S2	NORMAL	F12863	NTA	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM015S01	F12863-4	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	NTI	04/09/02	04/11/02	04/11/02	2	0	2
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM18S01	GP3107-S2	NORMAL	F12863	NTI	04/10/02	04/11/02	04/11/02	1	0	1
%	13GLM011I01	F12863-13	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM011S01	F12863-14	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
UG/L	13GLM012I01	F12863-9	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM014I01	F12863-10	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM015I01	F12863-5	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM015S01	F12863-4	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM016S01	F12863-6	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM04I01	F12863-7	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM04S01	F12863-8	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM05I01	F12863-11	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM05S01	F12863-12	NORMAL	F12863	OS	04/09/02	04/16/02	04/22/02	7	6	13
%	13GLM06I01	F12863-2	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM06I01D	F12863-3	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM06S01	F12863-1	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM07I01	F12863-17	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM07S01	F12863-18	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM13I01	F12863-16	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM13S01	F12863-15	NORMAL	F12863	OS	04/10/02	04/16/02	04/22/02	6	6	12
%	13GLM18S01	F12863-19	NORMAL	F12863	OS	04/10/02	04/16/02	04/23/02	6	7	13
%	13GLM011I01	F12863-13	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM011S01	F12863-14	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM012I01	F12863-9	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM014I01	F12863-10	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM015I01	F12863-5	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM015S01	F12863-4MSD	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM016S01	F12863-6	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM04I01	F12863-7	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM04S01	F12863-8	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM05I01	F12863-11	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM05S01	F12863-12	NORMAL	F12863	OV	04/09/02	/ /	04/15/02	0	0	6
%	13GLM06I01	F12863-2	NORMAL	F12863	OV	04/10/02	/ /	04/12/02	0	0	2
UG/L	13GLM06I01D	F12863-3	NORMAL	F12863	OV	04/10/02	/ /	04/12/02	0	0	2
%	13GLM06S01	F12863-1	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM07I01	F12863-17	NORMAL	F12863	OV	04/10/02	/ /	04/16/02	0	0	6
%	13GLM07S01	F12863-18	NORMAL	F12863	OV	04/10/02	/ /	04/16/02	0	0	6
%	13GLM13I01	F12863-16	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM13S01	F12863-15	NORMAL	F12863	OV	04/10/02	/ /	04/15/02	0	0	5
%	13GLM18S01	F12863-19	NORMAL	F12863	OV	04/10/02	/ /	04/16/02	0	0	6
%	13GLM011I01	F12863-13	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM011S01	F12863-14	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM012I01	F12863-9	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM014I01	F12863-10	NORMAL	F12863	PAH	04/09/02	04/16/02	05/06/02	7	20	27
%	13GLM015I01	F12863-5	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM015S01	F12863-4	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM016S01	F12863-6	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM04I01	F12863-7	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM04S01	F12863-8	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM05I01	F12863-11	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM05S01	F12863-12	NORMAL	F12863	PAH	04/09/02	04/16/02	05/03/02	7	17	24
%	13GLM06I01	F12863-2	NORMAL	F12863	PAH	04/10/02	04/16/02	05/06/02	6	20	26
%	13GLM06I01D	F12863-3	NORMAL	F12863	PAH	04/10/02	04/16/02	05/06/02	6	20	26
%	13GLM06S01	F12863-1	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM07I01	F12863-17	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM07S01	F12863-18	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM13I01	F12863-16	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM13S01	F12863-15	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
%	13GLM18S01	F12863-19	NORMAL	F12863	PAH	04/10/02	04/16/02	05/03/02	6	17	23
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	SO4	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	SO4	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
%	13GLM015S01	GP3117-S2	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	SO4	04/09/02	04/16/02	04/16/02	7	0	7
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	SO4	04/09/02	04/16/02	04/18/02	7	2	9
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	SO4	04/10/02	04/16/02	04/16/02	6	0	6
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM18S01	F12863-19	NORMAL	F12863	SO4	04/10/02	04/16/02	04/18/02	6	2	8
MG/L	13GLM011I01	F12863-13	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM011S01	F12863-14	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM012I01	F12863-9	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM014I01	F12863-10	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM015I01	F12863-5	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM015S01	F12863-4	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM016S01	F12863-6	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM04I01	F12863-7	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM04S01	F12863-8	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM05I01	F12863-11	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM05S01	F12863-12	NORMAL	F12863	TOC	04/09/02	/ /	05/02/02	0	0	23
MG/L	13GLM06I01	F12863-2	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM06I01D	F12863-3	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM06S01	F12863-1	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM07I01	F12863-17	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM07S01	F12863-18	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM13I01	F12863-16	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM13S01	F12863-15	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22
MG/L	13GLM18S01	F12863-19	NORMAL	F12863	TOC	04/10/02	/ /	05/02/02	0	0	22

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834, CTO-0184, WR# PC184-2
Report Date: May 10, 2002
Job Number: F12863

19 samples were collected on April 10, 2002, and received on April 11, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOC, SW846-8260B:

- The Blank Spike associated with analytical batch VG497 had a recovery for Tetrachloroethylene slightly above acceptance limits. All associated samples were non-detect for this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch VG498 had one RPD above acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

PAHs, SW846-8310:

- Sample 13GLM04I01 had surrogate recoveries below acceptance limits. The extract was analyzed by GC/MS 8270 SIM to confirm recoveries. There was no more sample available to re-extract. The sample has been footnoted accordingly.
- Sample 13GLM05S01 appears as though it may have been double surrogated. One of the surrogate recoveries is slightly above acceptance limits. The sample is non-detect. Data not adversely affected. The sample has been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch MP4336 and MP4347 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and/or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

General Chemistry: Nitrite

- The MS associated with analytical batch GP3107/GN9265 had a recovery slightly below acceptance limits. The low spike recovery indicates a possible matrix interference and/or sample non-homogeneity. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4336
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/12/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56		
Antimony	5.0	1.52		
Arsenic	10	2.83	-2.2	<10
Barium	200	.49		
Beryllium	5.0	.26		
Cadmium	5.0	.26		
Calcium	1000	3.82	37.0	<1000
Chromium	10	.43		
Cobalt	50	.5		
Copper	25	.44		
Iron	300	7.11		
Lead	5.0	1.22		
Magnesium	5000	9.88	9.5	<5000
Manganese	15	.16	-1.7	<15
Molybdenum	50	.75		
Nickel	40	1.08		
Potassium	5000	13.9	670	<5000
Selenium	10	1.98		
Silver	10	.55		
Sodium	5000	145	376	<5000
Thallium	10	1.49		
Tin	50	2.18		
Vanadium	50	.47		
Zinc	20	.59		

Associated samples MP4336: F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0415M5.ASC
QC Limits: result < RL

Date Analyzed: 04/15/02
Run ID: MA2767

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	-1.2	<10	-0.27	<10	2.1	<10	1.9	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	2.5	<1000	23.0	<1000	1.5	<1000	0.070	<1000
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	9.5	<5000	28.1	<5000	3.1	<5000	6.3	<5000
Manganese	15	.16	0.14	<15	-1.5	<15	-1.5	<15	-1.5	<15
Molybdenum	50	.75								
Nickel	40	1.08	anr							
Potassium	5000	13.9	654	<5000<	642	<5000<	656	<5000<	665	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	412	<5000	349	<5000	351	<5000	483	<5000
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

00984

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0415M5.ASC
QC Limits: result < RL

Date Analyzed: 04/15/02
Run ID: MA2767

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	0.64	<10	0.28	<10	0.25	<10	-1.0	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	-4.6	<1000	-3.8	<1000	-0.40	<1000	-0.30	<1000
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	-1.4	<5000	-1.1	<5000	5.6	<5000	4.9	<5000
Manganese	15	.16	-1.6	<15<	-1.6	<15<	-1.5	<15	-1.5	<15
Molybdenum	50	.75								
Nickel	40	1.08	anr							
Potassium	5000	13.9	615	<5000<	653	<5000<	666	<5000<	656	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	163	<5000	153	<5000	528	<5000<	364	<5000
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

00985

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2768 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr					
Antimony	0.0050	1.52	anr					
Arsenic	0.010	2.83	0.52	<10	0.020	<10	0.45	<10
Barium	200	.49	anr					
Beryllium	5.0	.26	anr					
Cadmium	5.0	.26	anr					
Calcium	1000	3.82	anr					
Chromium	10	.43	anr					
Cobalt	50	.5	anr					
Copper	25	.44	anr					
Iron	300	7.11	anr					
Lead	0.0050	1.22	anr					
Magnesium	5000	9.88	anr					
Manganese	15	.16	anr					
Molybdenum	50	.75						
Nickel	40	1.08	anr					
Potassium	5000	13.9	anr					
Selenium	0.010	1.98	anr					
Silver	10	.55	anr					
Sodium	5000	145	anr					
Thallium	0.010	1.49	anr					
Tin	50	2.18						
Vanadium	50	.47	anr					
Zinc	20	.59	anr					

(*) Outside of QC limits
(anr) Analyte not requested

00986

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4336
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/12/02

Metal	F12863-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium				
Beryllium				
Cadmium				
Calcium	3010	3480	15.8*(a)	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium	2100	2210	5.1	0-10
Manganese	1.19	13.8	1057.1(b	0-10
Molybdenum				
Nickel				
Potassium	2980	5560	86.4*(a)	0-10
Selenium				
Silver				
Sodium	9150	11100	21.2*(a)	0-10
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP4336: F12863-1, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

01006

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits
Chloride	GP3117/GN9297	20	<20	mg/l	97.0	90-110%
Nitrogen, Nitrate	GP3107/GN9265	0.10	<0.10	mg/l	110.0	90-110%
Nitrogen, Nitrite	GP3107/GN9265	0.10	<0.10	mg/l	94.0	90-110%
Sulfate	GP3117/GN9297	20	<20	mg/l	94.2	90-110%

Associated Samples:
Batch GP3107: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9
Batch GP3117: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP3117/GN9297	F12863-4	mg/l	23.3	100	115	91.7	80-120%
Chloride	GP3117/GN9297	F12863-4	mg/l	23.3	100	115	91.7	80-120%
Nitrogen, Nitrate	GP3107/GN9265	F12863-19	mg/l	0.49	1	1.4	91.0	80-120%
Nitrogen, Nitrate	GP3107/GN9265	F12863-19	mg/l	0.49	1	1.4	91.0	80-120%
Nitrogen, Nitrite	GP3107/GN9265	F12863-19	mg/l	<0.050	1	0.78	78.0N(a)	80-120%
Nitrogen, Nitrite	GP3107/GN9265	F12863-19	mg/l	<0.050	1	0.79	79.0N(a)	80-120%
Sulfate	GP3117/GN9297	F12863-4	mg/l	24.6	100	112	87.4	80-120%
Sulfate	GP3117/GN9297	F12863-4	mg/l	24.6	100	112	87.4	80-120%

Associated Samples:
Batch GP3107: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9
Batch GP3117: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

01126

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP3117/GN9297	F12863-4	mg/l	23.3	23.3	0.0	0-20%
Nitrogen, Nitrate	GP3107/GN9265	F12863-19	mg/l	0.49	0.49	0.0	0-20%
Nitrogen, Nitrite	GP3107/GN9265	F12863-19	mg/l	<0.050	<0.050	0.0	0-20%
Sulfate	GP3117/GN9297	F12863-4	mg/l	24.6	24.6	0.0	0-20%

Associated Samples:
Batch GP3107: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9
Batch GP3117: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12863
Account: ALSE - Accutest Labs S. E.
Project: ALSE493 - TETRFLTA: CSS Panama City-N2834(CTO-0184

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits
Total Organic Carbon	GN2734	1.0	<1.0	mg/l	99.0	80-120%

Associated Samples:
Batch GN2734: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12863
Account: ALSE - Accutest Labs S. E.
Project: ALSE493 - TETRFLTA: CSS Panama City-N2834(CTO-0184

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GN2734	F12863-1	mg/l	17.2	20.0	29.0	102.0	75-125%

Associated Samples:
Batch GN2734: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12863
Account: ALSE - Accutest Labs S. E.
Project: ALSE493 - TETRFLTA: CSS Panama City-N2834(CTO-0184

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Total Organic Carbon	GN2734	F12863-1	mg/l	17.2	17.4	1.1	0-20%

Associated Samples:
Batch GN2734: F12863-1, F12863-10, F12863-11, F12863-12, F12863-13, F12863-14, F12863-15, F12863-16, F12863-17, F12863-18, F12863-19, F12863-2, F12863-3, F12863-4, F12863-5, F12863-6, F12863-7, F12863-8, F12863-9

Metals Digestion Log: Water

Method of Digestion: SW846-3010A **Temp:** 92 **Thermometer ID** 46

	HNO_3	HCl
Added:		
Mfg:	Fisher	Fisher
Lot#	1101040	4101031

MP4336

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 4/12/02	50 mL	50 mL	4/12/02	
SB ↓	↓	↓	↓	1mL ACC254+.25mL ACC257
MS F12863-1				+5mL met714
MSD F12863-1				↓
Dup F12863-1				
1 QC F12863-1				
2 -2				
3 -3				
4 -4				
5 -5				
6 -6				
7 -7				
8 -8				
9 -9				
10 -10				
11 -11				
12 -12				
13 -13				
14 -14				
15 -15				
16 -16				
17 -17				
18 -18				
19 -19				
20	DM 4/12/02			

Analyst DMetzger **Date** 4/12/02

QC Review [illegible] **Date** 4/12/02

Rev. 07/23/01 SI

Page Number: 021

01014

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:11	MA2767-ICV1	1		
10:14	MA2767-ICB1	1		
10:17	MA2767-CRI1	1		
10:20	MA2767-ICSA1	1		
10:26	MA2767-ICSAB1	1		
10:31	MA2767-CCV1	1		
10:36	MA2767-CCB1	1		
10:40	F12849-1	10		(sample used for QC only; not part of login F12863)
10:44	MP4332-D1	10		
10:48	ZZZZZZ	10		
10:52	ZZZZZZ	10		
10:56	ZZZZZZ	1		
10:59	MP4335-MB1	1		
11:03	MP4335-B1	1		
11:07	F12837-1	1		(sample used for QC only; not part of login F12863)
11:11	MP4335-S1	1		
11:16	MP4335-S2	1		
11:20	MA2767-CCV2	1		
11:25	MA2767-CCB2	1		
11:40	MP4335-D1	1		
11:44	MP4335-SD1	5		
11:48	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:56	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:19	MA2767-CCV3	1		
12:25	MA2767-CCB3	1		
12:29	ZZZZZZ	1		
12:32	ZZZZZZ	1		

01008

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:36	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:44	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:56	MP4336-MB1	1		
13:00	MP4336-B1	1		
13:05	F12863-1	1		
13:09	MA2767-CCV4	1		
13:14	MA2767-CCB4	1		
13:18	MP4336-S1	1		
13:22	MP4336-S2	1		
13:28	MP4336-D1	1		
13:32	MP4336-SD1	5		
13:36	F12863-2	1		
13:40	F12863-3	1		
13:44	F12863-4	1		
13:48	F12863-5	1		
13:52	F12863-6	1		
13:55	F12863-7	1		
13:59	MA2767-CCV5	1		
14:04	MA2767-CCB5	1		
14:08	F12863-8	1		
14:12	F12863-9	1		
14:16	F12863-10	1		
14:20	F12863-11	1		
14:24	F12863-12	1		
14:28	F12863-13	1		
14:32	F12863-14	1		
14:36	F12863-15	1		
14:40	F12863-16	1		
14:44	F12863-17	1		
14:47	MA2767-CCV6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0415M5.ASC Date Analyzed: 04/15/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2767
Parameters: As,Ca,Mg,Mn,K,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	14:53	MA2767-CCB6	1		
	14:57	F12863-18	1		
	15:00	F12863-19	1		
---------->	Last reportable sample/prep for job F12863				
	15:04	MA2767-CCV7	1		
	15:10	MA2767-CCB7	1		
---------->	Last reportable CCB for job F12863				

Refer to raw data for calibration curve and standards.

01010

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
Parameters: As

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:22	MA2768-ICV1	1		
	10:25	MA2768-ICB1	1		
	10:31	MA2768-CRI1	1		
	10:35	MA2768-ICSA1	1		
	10:38	MA2768-ICSA2	1		
	10:39	MA2768-ICSAB1	1		
	10:42	MA2768-CCV1	1		
	10:48	MA2768-CCB1	1		
	10:51	F12837-1	1		(sample used for QC only; not part of login F12863)
	10:55	MP4335-D1	1		
	10:59	MP4335-SD1	5		
	11:03	F12863-9	1		
---------->	Last reportable sample/prep for job F12863				
	11:07	MP4337-MB1	1		
	11:11	MP4337-B1	1		
	11:16	F12899-2	1		(sample used for QC only; not part of login F12863)
	11:20	MP4337-S1	1		
	11:24	MP4337-S2	1		
	11:30	MP4337-D1	1		
	11:34	MA2768-CCV2	1		
	11:39	MA2768-CCB2	1		
---------->	Last reportable CCB for job F12863				
	11:43	MP4337-SD1	5		
	11:47	ZZZZZZ	1		
	11:51	ZZZZZZ	1		
	11:55	ZZZZZZ	1		
	11:59	ZZZZZZ	1		
	12:03	ZZZZZZ	1		
	12:07	ZZZZZZ	1		
	12:10	ZZZZZZ	1		
	12:14	ZZZZZZ	1		
	12:18	ZZZZZZ	1		
	12:22	MA2768-CCV3	1		
	12:27	MA2768-CCB3	1		
	12:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12863
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:35	ZZZZZZ	1		
12:39	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:10	MA2768-CCV4	1		
13:15	MA2768-CCB4	1		
13:19	MP4338-MB1	1		
13:23	MP4338-B1	1		
13:28	F12897-1	1		(sample used for QC only; not part of login F12863)
13:32	MP4338-S1	1		
13:37	MP4338-D1	1		
13:41	MP4338-SD1	5		
13:45	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:01	MA2768-CCV5	1		
14:06	MA2768-CCB5	1		
14:10	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:22	MA2768-CCV6	1		
14:27	MA2768-CCB6	1		

Refer to raw data for calibration curve and standards.

C1012

FIELD DUPLICATE PRECISION

ANALYTE	13GLM06I01	13GLM06I01D	RPD	DIFFERENCE
Arsenic	4.1	3.5	15.79	0.6
Calcium	1670	1660	0.60	10
Magnesium	1390	1380	0.72	10
Manganese	9.4	9.4	0.00	0
Potassium	2410	2410	0.00	0
Sodium	4680	4740	1.27	60
Chloride	10U	10U	#VALUE!	#VALUE!
Nitrate	.05U	.05U	#VALUE!	#VALUE!
Nitrite	.05U	.05U	#VALUE!	#VALUE!
Sulfate	10U	10U	#VALUE!	#VALUE!
Total Organic Carbon	9.2	9.6	4.26	0.4

Method: TRACE6 Sample Name: F12863-9 Operator: DM
Run Time: 04/15/02 14:12 Filename: R0415M5
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	5.721	.0123	.0215	-.0003	4.752
SDev	.0008	.0991	.0038	.0004	.0003	.0533
%RSD	118.1	1.732	30.62	2.034	93.14	1.121

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0006	.0153	.0030	12.83	3.701
SDev	.0003	.001	.0012	.0012	.1551	.0467
%RSD	56.17	172.7	7.571	41.27	1.209	1.261

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.650	.0322	.0005	4.459	.0043	.0117
SDev	.0277	.0005	.0002	.4537	.0012	.0051
%RSD	1.682	1.53	35.95	10.17	27.04	44.01

Elems	2203/2	Pb2203	Se1960	Sb2068	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	.0043	.0012	-.0011	.0014	-.0011
SDev	.0045	.0013	.0028	.0025	.0038	.0046
%RSD	165.6	29.73	229.2	221.7	262.7	401.2

Elems	Sn1899	V 2924	Zn2062	Tl1908
Units	ppm	ppm	ppm	ppm
Avge	-.0018	.0199	.0023	-.0058
SDev	.0031	.0012	.0003	.002
%RSD	167.1	5.889	13.33	34.6

sample: 13GLM012I01

0.0322 ppm x 1000 = 32.2 mg/L

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**MAY 23, 2002**
FROM:	**BERNARD F SPADA III**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/OVG/SVOC**
CTO 184, PANAMA CITY
SDG F12878

SAMPLES: 13/Aqueous

13GLM010I01	13GLM010S01	13GLM03S01
13GLM01S01D	13GLM09I01	13GLM09S01
13GLM016D01	13GLM16I01	13GLM16I01D
13GLM17D01	13GLM17I01	13GLM17S01
13RL041102*		

OVERVIEW

The sample set for CTO 184 CSS Panama City, SDG F12878 consists of eleven (11) environmental aqueous samples and two (2) field duplicates. The sample denoted with an asterisk (*) was analyzed for volatile organic compounds (VOC) and semivolatile organic compounds (SVOC). All other samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and organic volatile gasses (OVG). The field duplicate pairs included in this SDG are (13GLM010S01 / 13GLM010S01D) and (13GLM16I01 / 13GLM16I01D).

The samples were collected by Tetra Tech NUS on April 11, 2002 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, and RSK 147/175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- * Data completeness
- * Holding times
- * GC/MS tuning and system performance
- * Initial/continuing calibrations
- * Laboratory method and field quality control blank results
- * Surrogate spike recoveries
- * Blank Spike/Blank Spike Duplicate Results
- Matrix Spike/Matrix Spike Duplicate Results
- * Internal Standard Performance
- * Compound Identification
- * Compound Quantitation
- * Field Duplicate Precision
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified

Analytical results are presented in Appendix A.

Volatile

The MS/MSD recoveries in sample 13GLM010S01-D exceeded the quality control criteria for 1,1-dichloroethane, toluene, and total xylenes. Blank spike recoveries were acceptable. No action is taken based upon MS/MSD noncompliance alone.

The MS/MSD recoveries in sample 13GLM010S01-D were below the quality control criteria for cis-1,3-dichloropropene, and trans-1,3-dichloropropene. No action was taken because the blank spike was compliant and all results for the aforementioned compounds were non-detected.

Positive results reported below the Reporting Limit (RL) were qualified as estimated, (J).

Sample 13GLM03S01 was analyzed at a dilution due to the concentration of target analytes present. The sample was not analyzed undiluted. This accounts for the elevated reporting limits for all non-detected compounds in this sample.

The following table illustrates differences between the laboratory's RL and the Required Quantitation Limit (RQL) listed in the Statement of Work (SOW):

Compound	RL	RQL
Methylene Chloride	5 ug/L	2 ug/L
Total Xylenes	3 ug/L	1 ug/L
Total 1,2-Dichloroethene	2 ug/L	1 ug/L
Carbon Disulfide	5 ug/L	1 ug/L

Semivolatile

The initial calibration exceeded the 30% relative standard deviation (RSD) quality control criteria for benzaldehyde. Non-detected results for benzaldehyde were not qualified since the %RSD was less than 50%.

Positive results reported below the Reporting Limit (RL) were qualified as estimated, (J).

The following table illustrates differences between the laboratory's RL and the Required Quantitation Limit (RQL) listed in the Statement of Work (SOW):

Compound	RL	RQL
Benzaldenyde	25 ug/L	10 ug/L
Acenaphthene	5 ug/L	1 ug/L
Acenaphthylene	5 ug/L	1 ug/L
Anthracene	5 ug/L	1 ug/L
Benzo(a)anthracene	5 ug/L	1 ug/L
Benzo(a)pyrene	5 ug/L	1 ug/L
Benzo(b)fluoranthene	5 ug/L	1 ug/L
Benzo(g,h,i)perylene	5 ug/L	1 ug/L
Benzo(k)fluoranthene	5 ug/L	1 ug/L
Chrysene	5 ug/L	1 ug/L
Dibenz(a,h)anthracene	5 ug/L	1 ug/L

The continuing calibration report from April 23 at 10:22a was missing the second page. The laboratory was contacted to request that the remaining page be sent. It was faxed on May 20, 2002.

A method blank summary with the file number W009580 showed no quantitation of target analytes. When the laboratory was contacted about this, the validator was informed that the LIMS system did not quantitate re-analyzed blanks. The raw data was used to verify the blank had no detected compounds.

A blank spike summary with the file number W009579 showed no quantitation of target analytes. When the laboratory was contacted about this, the validator was informed that the LIMS system did not quantitate re-analyzed spikes. The raw data was used to verify the spike recoveries.

Several blank spike percent recoveries fell outside the laboratory quality control limits. Two compounds, 2,4-dinitrophenol (2,4DNP) and 4-nitrophenol (4NP), contained recoveries less than 10%. Because the matrix spike recoveries for 2,4DNP and 4NP were acceptable, no action was taken for these compounds. The remaining compounds were not qualified because no validation action is required.

Organic Volatile Gases

The continuing calibration analyzed on April 18 at 4:38p exceeded the 15% difference (%D) quality control criteria for methane, ethane, and ethene. Positive and nondetected results in samples 13GLM010S01, 13GLM010S01D, 13GLM09S01, and 13GLM016I01 were qualified as estimated (J) and (UJ), respectively.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Minor calibration noncompliances were noted in the semivolatile and gas fraction analyses.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines "Navy IRCDQM (9/99). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

TetraTech NUS
Bernard F Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	7.7		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1.6		
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	0.66	J	P
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	0.86	J	P
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1.2		
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	45		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	1.4	J	P
ACETONE	23.9		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	2.5		
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	7.7		
ISOPROPYLBENZENE	0.67	J	P
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	40.2		
TOTAL 1,2-DICHLOROETHENE	2.5		
TOTAL XYLENES	50.3		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	3.4		
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	42.1		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	26.1		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	2.4		
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	7.6		
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	39.5		
TOTAL 1,2-DICHLOROETHENE	2.4		
TOTAL XYLENES	50.3		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	2.7		
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2-DIBROMO-3-CHLOROPROP	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	25	U	
2-HEXANONE	25	U	
4-METHYL-2-PENTANONE	4.3	J	P
ACETONE	61		
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	25	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	4.8	J	P
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DICHLORODIFLUOROMETHAN	5	U	

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	83.4		
ISOPROPYLBENZENE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	25	U	
STYRENE	5	U	
TETRACHLOROETHENE	4.5	J	P
TOLUENE	289		
TOTAL 1,2-DICHLOROETHENE	10	U	
TOTAL XYLENES	211		
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPEN	5	U	
TRICHLOROETHENE	13.6		
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	7.1		
1,1-DICHLOROETHENE	0.91	J	P
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	7.2		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	6.1		
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3.2		
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1.8	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	2.5		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1.8		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	16.3		
1,1-DICHLOROETHENE	3.3		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	15		
1,1-DICHLOROETHENE	4.5		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	0.6	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	0.68	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.68	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	15.2		
1,1-DICHLOROETHENE	5.6		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1.3		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	4.3		
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1		
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	1	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OV

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	9.1		
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	16.1		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	0.79	J	P
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5.5	U	
1-METHYLNAPHTHALENE	5.5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5.5	U	
2,4,5-TRICHLOROPHENOL	5.5	U	
2,4,6-TRICHLOROPHENOL	5.5	U	
2,4-DICHLOROPHENOL	5.5	U	
2,4-DIMETHYLPHENOL	28	U	
2,4-DINITROPHENOL	28	U	
2,4-DINITROTOLUENE	5.5	U	
2,6-DINITROTOLUENE	5.5	U	
2-CHLORONAPHTHALENE	5.5	U	
2-CHLOROPHENOL	5.5	U	
2-METHYLNAPHTHALENE	5.5	U	
2-METHYLPHENOL	5.5	U	
2-NITROANILINE	5.5	U	
2-NITROPHENOL	5.5	U	
3&4-METHYLPHENOL	5.5	U	
3,3'-DICHLOROBENZIDINE	11	U	
3-NITROANILINE	5.5	U	
4,6-DINITRO-2-METHYLPHENO	11	U	
4-BROMOPHENYL PHENYL ET	5.5	U	
4-CHLORO-3-METHYLPHENOL	5.5	U	
4-CHLOROANILINE	5.5	U	
4-CHLOROPHENYL PHENYL ET	5.5	U	
4-NITROANILINE	5.5	U	
4-NITROPHENOL	28	U	
ACENAPHTHENE	5.5	U	
ACENAPHTHYLENE	5.5	U	
ACETOPHENONE	5.5	U	
ANTHRACENE	5.5	U	

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5.5	U	
BENZALDEHYDE	28	U	
BENZO(A)ANTHRACENE	5.5	U	
BENZO(A)PYRENE	5.5	U	
BENZO(B)FLUORANTHENE	5.5	U	
BENZO(G,H,I)PERYLENE	5.5	U	
BENZO(K)FLUORANTHENE	5.5	U	
BIS(2-CHLOROETHOXY)METHA	5.5	U	
BIS(2-CHLOROETHYL)ETHER	5.5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5.5	U	
BUTYL BENZYL PHTHALATE	5.5	U	
CAPROLACTAM	5.5	U	
CARBAZOLE	5.5	U	
CHRYSENE	5.5	U	
DI-N-BUTYL PHTHALATE	5.5	U	
DI-N-OCTYL PHTHALATE	5.5	U	
DIBENZO(A,H)ANTHRACENE	5.5	U	
DIBENZOFURAN	5.5	U	
DIETHYL PHTHALATE	5.5	U	
DIMETHYL PHTHALATE	5.5	U	
FLUORANTHENE	5.5	U	
FLUORENE	5.5	U	
HEXACHLOROBUTADIENE	5.5	U	
HEXACHLOROCYCLOPENTADI	5.5	U	
HEXACHLOROETHANE	5.5	U	
INDENO(1,2,3-CD)PYRENE	5.5	U	
N-NITROSO-DI-N-PROPYLAMIN	5.5	U	
N-NITROSODIPHENYLAMINE	5.5	U	
NAPHTHALENE	5.5	U	
NITROBENZENE	5.5	U	

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	28	U	
PHENANTHRENE	5.5	U	
PHENOL	5.5	U	
PYRENE	5.5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	14.8		
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	18.4		
2-METHYLPHENOL	2.8	J	P
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	24.9		
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	21.6		
NITROBENZENE	5	U	

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	15.3		
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	19.1		
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	22.3		
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	22.3		
NITROBENZENE	5	U	

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	4.1	J	P
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	2.8	J	P
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	20.1		
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	11.4		
NITROBENZENE	5	U	

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OS

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL ET	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METHA	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	63.9		

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	11.9	J	C
ETHENE	1	UJ	C
METHANE	2300	J	C

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	2000	J	C

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	623		

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	12.8		

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	265	J	C

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	165		

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	73.9	J	C

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	82.8		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	222		

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	163		

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	622		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009244.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	1.6	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	7.7	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	0.66	1.0	ug/l	J
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	0.86	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	3.0	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009269.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	23.9	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	45.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.5	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	2.5	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	7.7	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	0.67	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone	1.4	5.0	ug/l	J
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.2	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	40.2	1.0	ug/l	
79-01-6	Trichloroethylene	3.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	50.3	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	109%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009262.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	26.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	42.1	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.4	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	2.4	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	7.6	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	39.5	1.0	ug/l	
79-01-6	Trichloroethylene	2.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	50.3	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009270.D	5	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	61.0	25	ug/l	
71-43-2	Benzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
108-90-7	Chlorobenzene	4.8	5.0	ug/l	J
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	25	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	83.4	5.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	4.3	25	ug/l	J
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethylene	4.5	5.0	ug/l	J
108-88-3	Toluene	289	5.0	ug/l	
79-01-6	Trichloroethylene	13.6	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	211	15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	109%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009248.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009261.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.2	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	7.1	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	0.91	1.0	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	6.1	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	3.2	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	1.8	3.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009249.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009263.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	2.5	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	108%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009264.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.8	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009266.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	16.3	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	3.3	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	106%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009265.D	1	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	0.60	1.0	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	15.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	4.5	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.68	1.0	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	0.68	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009250.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	1.3	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	4.3	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	15.2	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	5.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.0	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009245.D	1	04/16/02	JG	n/a	n/a	VB399
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	16.1	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	9.1	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	0.79	1.0	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009530.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009586.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
98-86-2	Acetophenone	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
1912-24-9	Atrazine	ND	5.5	ug/l	
100-52-7	Benzaldehyde	ND	28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
105-60-2	Caprolactam	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%	41%	20-125%
4165-62-2	Phenol-d5	38%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	92%	75%	35-140%
4165-60-0	Nitrobenzene-d5	86%	77%	46-125%
321-60-8	2-Fluorobiphenyl	80%	77%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%	82%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009529.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009585.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	2.8	5.0	ug/l	J
	3&4-Methylphenol	24.9	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	14.8	5.0	ug/l	
91-57-6	2-Methylnaphthalene	18.4	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	21.6	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	53%	20-125%
4165-62-2	Phenol-d5	32%	38%	10-125%
118-79-6	2,4,6-Tribromophenol	94%	101%	35-140%
4165-60-0	Nitrobenzene-d5	86%	92%	46-125%
321-60-8	2-Fluorobiphenyl	84%	93%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%	91%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009534.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009590.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	22.3	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	15.3	5.0	ug/l	
91-57-6	2-Methylnaphthalene	19.1	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	22.3	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%	53%	20-125%
4165-62-2	Phenol-d5	27%	35%	10-125%
118-79-6	2,4,6-Tribromophenol	92%	98%	35-140%
4165-60-0	Nitrobenzene-d5	86%	92%	46-125%
321-60-8	2-Fluorobiphenyl	84%	93%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	77%	90%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009528.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009584.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	20.1	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	4.1	5.0	ug/l	J
91-57-6	2-Methylnaphthalene	2.8	5.0	ug/l	J
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	11.4	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%	34%	20-125%
4165-62-2	Phenol-d5	28%	24%	10-125%
118-79-6	2,4,6-Tribromophenol	86%	90%	35-140%
4165-60-0	Nitrobenzene-d5	74%	74%	46-125%
321-60-8	2-Fluorobiphenyl	74%	80%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	73%	83%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009532.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009588.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	55%	20-125%
4165-62-2	Phenol-d5	35%	38%	10-125%
118-79-6	2,4,6-Tribromophenol	85%	88%	35-140%
4165-60-0	Nitrobenzene-d5	82%	86%	46-125%
321-60-8	2-Fluorobiphenyl	78%	85%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	81%	82%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009533.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009589.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%	46%	20-125%
4165-62-2	Phenol-d5	31%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	91%	90%	35-140%
4165-60-0	Nitrobenzene-d5	77%	79%	46-125%
321-60-8	2-Fluorobiphenyl	75%	76%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%	85%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009537.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009593.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	42%	20-125%
4165-62-2	Phenol-d5	33%	28%	10-125%
118-79-6	2,4,6-Tribromophenol	82%	79%	35-140%
4165-60-0	Nitrobenzene-d5	82%	67%	46-125%
321-60-8	2-Fluorobiphenyl	77%	69%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%	78%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009535.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009591.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	56%	20-125%
4165-62-2	Phenol-d5	34%	38%	10-125%
118-79-6	2,4,6-Tribromophenol	85%	90%	35-140%
4165-60-0	Nitrobenzene-d5	84%	91%	46-125%
321-60-8	2-Fluorobiphenyl	80%	90%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%	89%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009536.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009592.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%	54%	20-125%
4165-62-2	Phenol-d5	38%	36%	10-125%
118-79-6	2,4,6-Tribromophenol	86%	92%	35-140%
4165-60-0	Nitrobenzene-d5	86%	86%	46-125%
321-60-8	2-Fluorobiphenyl	86%	84%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%	91%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009543.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009596.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%	44%	20-125%
4165-62-2	Phenol-d5	32%	29%	10-125%
118-79-6	2,4,6-Tribromophenol	89%	95%	35-140%
4165-60-0	Nitrobenzene-d5	86%	74%	46-125%
321-60-8	2-Fluorobiphenyl	85%	75%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%	92%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009542.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009595.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%	50%	20-125%
4165-62-2	Phenol-d5	31%	34%	10-125%
118-79-6	2,4,6-Tribromophenol	82%	93%	35-140%
4165-60-0	Nitrobenzene-d5	80%	85%	46-125%
321-60-8	2-Fluorobiphenyl	75%	85%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	78%	89%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009538.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009594.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%	49%	20-125%
4165-62-2	Phenol-d5	37%	34%	10-125%
118-79-6	2,4,6-Tribromophenol	90%	93%	35-140%
4165-60-0	Nitrobenzene-d5	86%	77%	46-125%
321-60-8	2-Fluorobiphenyl	82%	78%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%	86%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009531.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009587.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2	950 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%	47%	20-125%
4165-62-2	Phenol-d5	32%	33%	10-125%
118-79-6	2,4,6-Tribromophenol	77%	78%	35-140%
4165-60-0	Nitrobenzene-d5	70%	71%	46-125%
321-60-8	2-Fluorobiphenyl	68%	69%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%	81%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008402.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	63.9	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008401.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2	XY008411.D	5	04/18/02	RA	n/a	n/a	GXY117

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2300 [a]	2.5	ug/l	
74-84-0	Ethane	11.9	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008405.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2 [a]	XY008412.D	5	04/18/02	RA	n/a	n/a	GXY117

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2000 [b]	2.5	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Results from different vials are not consistent.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008399.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	623	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008403.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	12.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008410.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	265	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008452.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	165	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008409.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	73.9	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008451.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	82.8	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008455.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	222	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008454.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	163	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008453.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	622	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	13GLM010S01	13GLM01S01D	RPD	DIFFERENCE
1,1,1-Trichloroethene	1.2	1U	#VALUE!	#VALUE!
1,1-Dichloroethane	45	42.1	6.66	2.9
4-methyl-2-pentanone	1.4	5U	#VALUE!	#VALUE!
Acetone	23.9	26.1	8.80	2.2
cis-1,2-dichloroethene	2.5	2.4	4.08	0.1
Ethylbenzene	7.7	7.6	1.31	0.1
Isopropylbenzene	0.67	1U	#VALUE!	#VALUE!
Toluene	40.2	39.5	1.76	0.7
Total 1,2-Dichloroethene	2.5	2.4	4.08	0.1
Total xylenes	50.3	50.3	0.00	0
Trichloroethene	3.4	2.7	22.95	0.7
1-Methylnaphthalene	14.8	15.3	3.32	0.5
2-Methylnaphthalene	18.4	19.1	3.73	0.7
3&4-Methylphenol	24.9	22.3	11.02	2.6
Naphthalene	21.6	22.3	3.19	0.7
Methane	2300	2000	13.95	300
ANALYTE	**13GLM16I01**	**13GLM16I01D**	**RPD**	**DIFFERENCE**
1,1-Dichloroethane	2.5	1.8	32.56	0.7
Methane	73.9	82.8	11.36	8.9

Spada, Bernie

From: Smith, Suzanne
Sent: Monday, May 20, 2002 12:03 PM
To: Spada, Bernie
Subject: RE: Field duplicates

You are absolutely correct. I guess I should know better than to trust Accutest's Lablink without double-checking the field books/groundwater sampling logs. I used the sampling time they logged in for the match-up since the duplicate sample was not on the chain. The duplicate pair is in fact 13GLM010S01/13GLM010S01D. Please change the duplicate name to reflect the correct pairing of the duplicate in the database. I would think the sampling time would be incorrect as well. I'm glad you are so thorough and didn't trust me! Thanks for catching my (Accutest's) error.

Suzanne I. Smith
Project Chemist
850-385-9899

-----Original Message-----
From: Spada, Bernie
Sent: Monday, May 20, 2002 12:40 PM
To: Smith, Suzanne
Subject: Field duplicates

Suzanne,

I am performing data validation on Panama City CTO-184 SDG-F12878. I have a question about the field duplicate information. In the e-mail you sent to Joe, it lists 13GLM03S01 as the sample paired with the duplicate 13GLM01S01D. Is there any possibility that 13GLM01S01D is the dupicate of 13GLM010S01? The reason that I am asking is because when I perform the calculation for duplicate precision, the first pairing doesn't match well at all. I have attached the calculation table for this. Please let me know which is correct.

Bernie

<< File: F12878.xls >>

Spada, Bernie

From: Samchuck, Joseph
Sent: Friday, May 17, 2002 7:05 AM
To: Spada, Bernie; Staffen, Seth; Sedlmyer, Ed; Lee, Ethan
Subject: FW: Upcoming data deliverables

All,

See notes below for charge numbers and duplicate info. Duplicates are not blind. Please remember to enter them in the Access program.

The PM has requested a quick turnaround for this project.

Thanks.

Joe

-----Original Message-----
From: Smith, Suzanne
Sent: Thursday, May 16, 2002 10:44 AM
To: Samchuck, Joseph
Cc: Walker, Gerald
Subject: FW: Upcoming data deliverables

Hi Joe,
Just checking in and adding to your burden as usual. I spoke to Gerry today and he wants all of the Panama City SDGs to be expedited. None of the duplicates included with these SDGs are blind (I've discussed this with the project managers and field crew). All duplicate sample names are the sample name with an additional "D" on the end and should be easy to identify. Please let the validators know that they should feel free to contact me or Mike with any questions.
In addition to the 4 SDGs I've already mentioned below, the following should be added : F12909, F12910, F12924, and F12939. I apologize that I did not give you this information earlier. I guess I misunderstood what it was exactly that Gerry was looking for datawise.
According to Accutest's Lablink (as far as you can trust it), all of these EDDs were sent out on 5/14 or 5/15 except for F12939 which hasn't been sent yet. I don't know how long it takes for them to get from point A to point B, but I just thought I'd let you know that you should be seeing them soon. Keep me posted! Thanks for all your assistance with this. Have a good day!

Suzanne I. Smith
Project Chemist
850-385-9899

-----Original Message-----
From: Samchuck, Joseph
Sent: Monday, May 13, 2002 2:21 PM
To: Smith, Suzanne
Subject: RE: Upcoming data deliverables

Suzanne,

I spoke to Accutest and Harry told me that we will get all of the data by Wed 5/15. If that's the case, we'll try to finish it up by 5/24. I'll let you know once we receive everything.

Joe

-----Original Message-----
From: Smith, Suzanne
Sent: Monday, May 13, 2002 1:32 PM
To: Samchuck, Joseph
Subject: RE: Upcoming data deliverables

Hi Joe,
I understand about the EDD/data. Could you just keep me up to date if it looks like we're going to have to push back the timeline? I noticed today that they still haven't been sent out to Pitt so I wouldn't be surprised if we need

to stretch the timeline a bit.

F12878: duplicate pairs are 13GLM16I01/13GLM16I01D and 13GLM03S01/13GLM01S01D (I believe this second sample was mistakenly left off of the chain and then misnamed; I'm deducing this based on sampling times on Accutest's Lablink as the samplers failed to make them blind duplicates. Could you please correct the name in the database to be 13GLM03S01D?)

F12863: duplicate pair is 13GLM06I01/13GLM06I01D

Charge No. N2834.0000.KA0070105

I believe there are also additional SDGs for this site/project that will also be coming in shortly - F12899 and F12908. While Gerry didn't ask for these specifically, I believe he is probably not aware of them as we have not yet received electronic preliminary results. If possible, could we add these as well? I understand that it will probably push the finish date back even further, but I would assume that he wants the data for the whole sampling event if possible. Thanks for all your help, Joe. Don't hesitate to contact me if you need any further info.

Suzanne I. Smith
Project Chemist
850-385-9899

-----Original Message-----
From: Samchuck, Joseph
Sent: Monday, May 13, 2002 12:16 PM
To: Smith, Suzanne
Cc: Sedlmyer, Ed
Subject: RE: Upcoming data deliverables

Suzanne,

I think completing the work by 5/24 is doable provided that the lab gets us the data/EDD in the next couple of days. Let me know what the appropriate charge number is and any relevant field duplicate information. Once we're done, we'll forward the electronic database to you and Denise.

FYI, I wanted Ed to be the contact for your limited project data reviews. My intent was to have someone on top of your schedules/needs. As he mentioned, if the work is done in Pitt or needs full dv let me know.

Thanks.

Joe

-----Original Message-----
From: Sedlmyer, Ed
Sent: Monday, May 13, 2002 11:11 AM
To: Smith, Suzanne; Samchuck, Joseph
Cc: Walker, Gerald
Subject: RE: Upcoming data deliverables

Suzanne,

I will forward this to Joe, he is still scheduling all full validations.

-----Original Message-----
From: Smith, Suzanne
Sent: Friday, May 10, 2002 4:10 PM
To: Sedlmyer, Ed
Cc: Walker, Gerald
Subject: Upcoming data deliverables

Hi Ed,
It's my understanding that you're to be our contact for data validation issues so I wanted to let you know that there will be two SDGs coming down the pike for CTO 184 - F12878 and F12863 - from Accutest. They get full validation up there in Pittsburgh and the project manager would appreciate it if the validation could be expedited. The preliminary electronic data was already sent out by Accutest so I would think you should receive the final deliverables next week some time. Gerry would like to have the validated results by 5/24. Is that possible? If you need to forward this on to Joe or Amy or anyone else for that matter, please do so. I'd appreciate it. Just copy me on the forward so I know who I

should address in the future if not you, OK? Thanks, man. Have a fantastic weekend up there in the 'Burg!

Suzanne I. Smith
Project Chemist
850-385-9899

F12878

HOLDING TIME
05/16/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
%	13GLM03S01	F12878-1DUP	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
%	13GLM03S01	F12878-1DUP	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	M	04/11/02	04/17/02	04/18/02	6	1	7
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM03S01	F12878-1	NORMAL	F12878	M	04/11/02	04/17/02	04/18/02	6	1	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13RL041102	F12878-4	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
%	13GLM03S01	F12878-1DUP	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM010I01	F12878-3	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM01S01D	F12878-7	NORMAL	F12878	OS	04/11/02	04/25/02	04/25/02	14	0	14
%	13GLM03S01	F12878-1	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM09I01	F12878-5	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM09S01	F12878-6	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM16D01	F12878-10	NORMAL	F12878	OS	04/11/02	04/25/02	04/25/02	14	0	14
%	13GLM16I01	F12878-8	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM16I01D	F12878-9	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM17D01	F12878-13	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM17I01	F12878-12	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM17S01	F12878-11	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13RL041102	F12878-4	NORMAL	F12878	OS	04/11/02	04/25/02	04/25/02	14	0	14
%	13GLM010I01	F12878-3	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
%	13GLM010S01	F12878-2	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM01S01D	F12878-7MS	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM03S01	F12878-1	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM09I01	F12878-5	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
%	13GLM09S01	F12878-6	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM16D01	F12878-10	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM16I01	F12878-8	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM16I01D	F12878-9	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM17D01	F12878-13	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM17I01	F12878-12	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM17S01	F12878-11	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
%	13RL041102	F12878-4	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM03S01	F12878-1	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOA	TCLSVOC	Metals	Dissolved Gases	TOC	Cl, SO4, NO2, NO3	LAB USE ONLY
1)	13GLM03S01	4-11-02	1215	JB	GW	11	X		X		X	3	2	1	3	1	1	
2)	13GLM010S01		1450			11	X		X		X	3	2	1	3	1	1	
3)	13GLM010I01		1520			11	X		X		X	3	2	1	3	1	1	
4)	13RL041102		1210			6	X		X		X	3	2	1	Ø	Ø	Ø	
5)	13GLM09I01		1030			11	X		X		X	3	2	1	3	1	1	
6)	13GLM09S01		0945			11	X		X		X	3	2	1	3	1	1	
7)	missing ASBD																	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Airbill # 8311-5257-8681

1/2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	1700 4/11/02	1.	2.		2. 04/12/02-0750
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE °C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC 1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	/	TCL VOC's (8260B)	TCL SVOC's/PAH's (8270C)	Select Metals	Anions (NO2, NO3, SO4)	TOC	Dissolved Gases	LAB USE ONLY
8)	13GLM16I01	4/11/02	08:55	JJ	GW	11	7	/	1	/	3	/	3	2	1	1	1	3	
9)	13GLM16I01D		08:55																
10)	13GLM16D01		09:50																
11)	13GLM17S01		11:35																
12)	13GLM17I01		14:55																
13)	13GLM17D01		12:40																

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

Airbill # 831152528681

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. JJ	4/11/02 18:06	1.	2.		2. 2/2 04/12/02
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE [ ]	ON ICE [ ]

Instrument Performance Check (BFB)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VB398-BFB
Lab File ID: B0009210.D
Instrument ID: GCMSB
Injection Date: 04/15/02
Injection Time: 09:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11101	24.2		Pass
75	30.0 - 60.0% of mass 95	20132	43.8		Pass
95	Base peak, 100% relative abundance	45960	100.0		Pass
96	5.0 - 9.0% of mass 95	3094	6.7		Pass
173	Less than 2.0% of mass 174	346	0.75	(0.81) [a]	Pass
174	50.0 - 100.0% of mass 95	42949	93.4		Pass
175	5.0 - 9.0% of mass 174	3022	6.6	(7.0) [a]	Pass
176	95.0 - 101.0% of mass 174	40850	88.9	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2776	6.0	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB398-IC398	B0009212.D	04/15/02	12:04	02:14	Initial cal 1PPB
VB398-IC398	B0009213.D	04/15/02	12:34	02:44	Initial cal 5PPB
VB398-IC398	B0009214.D	04/15/02	13:02	03:12	Initial cal 20PPB
VB398-ICC398	B0009215.D	04/15/02	13:31	03:41	Initial cal 40PPB
VB398-IC398	B0009217.D	04/15/02	14:27	04:37	Initial cal 100PPB
VB398-IC398	B0009219.D	04/15/02	15:23	05:33	Initial cal 70PPB
VB398-BS	B0009220.D	04/15/02	15:52	06:02	Blank Spike
VB398-MB	B0009221.D	04/15/02	16:20	06:30	Method Blank
ZZZZZZ	B0009222.D	04/15/02	16:48	06:58	(unrelated sample)
ZZZZZZ	B0009223.D	04/15/02	17:16	07:26	(unrelated sample)
ZZZZZZ	B0009224.D	04/15/02	17:45	07:55	(unrelated sample)
ZZZZZZ	B0009225.D	04/15/02	18:13	08:23	(unrelated sample)
ZZZZZZ	B0009226.D	04/15/02	18:41	08:51	(unrelated sample)
F12816-20	B0009227.D	04/15/02	19:09	09:19	(used for QC only; not part of job F12878)
F12816-20MS	B0009228.D	04/15/02	19:37	09:47	Matrix Spike
F12816-20MSD	B0009229.D	04/15/02	20:05	10:15	Matrix Spike Duplicate
ZZZZZZ	B0009230.D	04/15/02	20:34	10:44	(unrelated sample)
ZZZZZZ	B0009231.D	04/15/02	21:04	11:14	(unrelated sample)
ZZZZZZ	B0009232.D	04/15/02	21:35	11:45	(unrelated sample)

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Mon Apr 15 15:54:30 2002
Response via : Initial Calibration

JPO RSD > 15%
Quant by curve.

Calibration Files
1 =B0009212.D 2 =B0009213.D 3 =B0009214.D
4 =B0009215.D 5 =B0009219.D 6 =B0009217.D

		Compound	1	2	3	4	5	6	Avg	%RS
1)	I	Fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)		Dichlorodifluoromet		0.228	0.221	0.250	0.259	0.245	0.241	6.55
3)	P	Chloromethane	0.521	0.471	0.456	0.481	0.464	0.479	0.479	4.78
4)	C	Vinyl Chloride	0.383	0.361	0.341	0.380	0.378	0.373	0.369	4.28
5)		Bromomethane	0.204	0.198	0.184	0.200	0.195	0.193	0.196	3.61
6)		Chloroethane		0.174	0.173	0.188	0.191	0.190	0.183	4.92
7)		Trichlorofluorometh		0.181	0.208	0.228	0.254	0.246	0.223	13.27
8)		Acrolein	0.007	0.008	0.010	0.012	0.017	0.015	0.012	31.71
9)	C	1,1-Dichloroethene	0.348	0.404	0.428	0.433	0.460	0.449	0.420	9.63
10)		Freon 113	0.156	0.187	0.207	0.211	0.206	0.196	0.194	10.56
11)		Acetone		0.082	0.075	0.074	0.083	0.077	0.078	5.24
12)		Iodomethane	0.232	0.280	0.281	0.312	0.317	0.311	0.289	11.20
13)		Methyl acetate	0.204	0.233	0.229	0.222	0.235	0.230	0.225	5.10
14)		Carbon Disulfide	1.029	1.006	0.970	0.942	0.963	0.921	0.972	4.13
15)		Methylene Chloride	0.506	0.455	0.500	0.489	0.495	0.482	0.488	3.75
16)		Tert Butyl Alcohol	0.020	0.019	0.020	0.022	0.024	0.024	0.021	10.41
17)		trans-1,2-Dichloroe	0.355	0.413	0.395	0.389	0.411	0.394	0.393	5.35
18)		Acrylonitrile	0.073	0.080	0.084	0.083	0.087	0.085	0.082	6.17
19)		Methyl Tert Butyl E	0.453	0.574	0.594	0.589	0.635	0.603	0.575	10.98
20)		Hexane	0.336	0.327	0.344	0.337	0.363	0.330	0.339	3.80
21)	P	1,1-Dichloroethane	0.436	0.498	0.483	0.484	0.495	0.474	0.478	4.68
22)		ETBE	0.623	0.813	0.840	0.842	0.904	0.881	0.817	12.30
23)		Vinyl acetate		0.438	0.462	0.476	0.504	0.485	0.473	5.24
24)		Di-isopropyl ether	0.976	1.164	1.178	1.162	1.216	1.182	1.147	7.47
25)		2,2-Dichloropropane	0.181	0.192	0.193	0.189	0.199	0.178	0.189	4.16
26)		cis-1,2-Dichloroeth	0.279	0.281	0.276	0.263	0.266	0.257	0.270	3.64
27)		2-Butanone	0.108	0.134	0.131	0.130	0.140	0.137	0.130	8.77
28)		Bromochloromethane	0.088	0.115	0.109	0.107	0.108	0.106	0.105	8.40
29)	C	Chloroform	0.447	0.416	0.392	0.386	0.406	0.396	0.407	5.50
30)		Tetrahydrofuran	0.089	0.080	0.086	0.086	0.091	0.091	0.087	4.75
31)		1,1,1-Trichloroetha	0.263	0.276	0.275	0.276	0.282	0.274	0.274	2.30
32)	S	Dibromofluoromethan	0.211	0.210	0.207	0.209	0.212	0.211	0.210	0.81
33)		Cyclohexane	0.412	0.467	0.488	0.496	0.523	0.504	0.482	8.10
34)		1,1-Dichloropropene	0.243	0.286	0.291	0.294	0.309	0.296	0.287	7.91
35)		Carbon Tetrachlorid	0.210	0.208	0.211	0.212	0.223	0.217	0.213	2.59
36)	S	1,2-Dichloroethane-	0.251	0.255	0.257	0.252	0.264	0.265	0.258	2.27
37)		TAME	0.568	0.657	0.681	0.677	0.716	0.708	0.668	7.99
38)		Benzene	1.010	1.100	1.049	1.038	1.052	1.019	1.045	3.06
39)		1,2-Dichloroethane		0.334	0.313	0.310	0.319	0.317	0.319	2.90
40)		Trichloroethene		0.251	0.236	0.232	0.242	0.233	0.239	3.37
41)		Methylcyclohexane	0.353	0.339	0.349	0.339	0.362	0.344	0.348	2.55
42)	C	1,2-Dichloropropane	0.268	0.307	0.296	0.296	0.309	0.304	0.296	5.10

Average % RSD = 6.56831

(#) = Out of Range

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Mon Apr 15 15:54:30 2002
Response via : Initial Calibration

Calibration Files
1 =B0009212.D 2 =B0009213.D 3 =B0009214.D
4 =B0009215.D 5 =B0009219.D 6 =B0009217.D

		Compound	1	2	3	4	5	6	Avg	%RS
43)		Dibromomethane	0.120	0.147	0.146	0.145	0.150	0.149	0.143	7.99
44)	r2=0.996	1,4-Dioxane	0.003	0.002	0.002	0.002	0.003	0.003	0.002	17.24
45)		Bromodichloromethan	0.287	0.295	0.299	0.298	0.313	0.310	0.300	3.18
46)		2-Nitropropane	0.052	0.057	0.061	0.063	0.066	0.069	0.061	9.96
47)		2-Chloroethyl vinyl		0.124	0.142	0.146	0.160	0.158	0.146	9.78
48)		4-Methyl-2-pentanon	0.220	0.287	0.309	0.302	0.313	0.310	0.290	12.33
49)		cis-1,3-Dichloropro	0.320	0.373	0.392	0.387	0.416	0.406	0.382	8.94
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	S	Toluene-d8	1.373	1.378	1.363	1.363	1.385	1.368	1.372	0.62
52)	C	Toluene	1.556	1.634	1.595	1.529	1.592	1.538	1.574	2.53
53)		trans-1,3-Dichlorop	0.367	0.451	0.480	0.491	0.540	0.519	0.475	12.86
54)		1,1,2-Trichloroetha	0.268	0.307	0.303	0.295	0.302	0.293	0.295	4.71
55)		Tetrachloroethene	0.341	0.335	0.334	0.324	0.339	0.318	0.332	2.74
56)		2-hexanone	0.213	0.269	0.300	0.301	0.320	0.315	0.286	14.01
57)		1,3-Dichloropropane	0.492	0.584	0.575	0.552	0.572	0.567	0.557	6.02
58)		Dibromochloromethan	0.259	0.290	0.284	0.294	0.308	0.304	0.290	5.97
59)		1,2-Dibromoethane	0.267	0.308	0.302	0.295	0.319	0.311	0.300	6.04
60)		1-Chlorohexane		0.445	0.488	0.486	0.510	0.488	0.484	4.92
61)	P	Chlorobenzene	0.937	0.988	0.936	0.914	0.937	0.904	0.936	3.09
62)		1,1,1,2-Tetrachloro	0.277	0.290	0.294	0.285	0.301	0.295	0.290	2.94
63)	C	Ethylbenzene	1.620	1.734	1.716	1.696	1.773	1.715	1.709	2.97
64)		m,p-Xylene	1.100	1.291	1.284	1.264	1.336	1.311	1.264	6.66
65)		o-Xylene	1.054	1.283	1.357	1.340	1.393	1.353	1.297	9.57
66)		Styrene	0.733	0.991	1.063	1.063	1.078	1.050	0.996	13.29
67)	P	Bromoform		0.203	0.214	0.226	0.240	0.239	0.224	7.11
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)		Isopropylbenzene	2.288	2.482	2.480	2.475	2.587	2.557	2.478	4.20
70)	r2=0.995	Cyclohexanone	0.058	0.025	0.020	0.023	0.024	0.025	0.029	48.68
71)	S	4-Bromofluorobenzen	0.954	0.913	0.894	0.908	0.948	0.969	0.931	3.23
72)		Bromobenzene	0.781	0.846	0.773	0.756	0.770	0.771	0.783	4.09
73)	P	1,1,2,2-Tetrachloro	0.796	0.902	0.863	0.838	0.882	0.879	0.860	4.42
74)	r2=0.999	trans-1,4-Dichloro-	0.092	0.071	0.097	0.129	0.159	0.180	0.121	34.84
75)		1,2,3-Trichloroprop	0.176	0.188	0.186	0.176	0.190	0.189	0.184	3.58
76)		n-Propylbenzene	3.796	3.820	3.708	3.695	3.858	3.862	3.790	1.92
77)		2-Chlorotoluene	2.251	2.502	2.402	2.352	2.487	2.495	2.415	4.14
78)		4-Chlorotoluene	2.089	2.201	2.168	2.149	2.258	2.256	2.187	2.99
79)		1,3,5-Trimethylbenz	1.949	2.103	2.115	2.113	2.213	2.195	2.114	4.42
80)		sec-Butylbenzene	2.654	2.654	2.718	2.675	2.743	2.691	2.689	1.34
81)		1,3-Dichlorobenzene	1.318	1.408	1.413	1.380	1.403	1.385	1.384	2.52
82)		4-Isopropyltoluene	1.816	1.900	2.072	2.059	2.089	2.038	1.996	5.58
83)		1,4-Dichlorobenzene	1.579	1.528	1.490	1.429	1.459	1.432	1.486	3.95

Average % RSD = 7.18333

(#) = Out of Range

0271

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Mon Apr 15 15:54:30 2002
Response via : Initial Calibration

Calibration Files
1 =B0009212.D 2 =B0009213.D 3 =B0009214.D
4 =B0009215.D 5 =B0009219.D 6 =B0009217.D

	Compound	1	2	3	4	5	6	Avg	%RS
84)	tert-Butylbenzene	1.283	1.212	1.257	1.248	1.303	1.293	1.266	2.67
85)	n-Butylbenzene	1.942	2.016	2.297	2.350	2.412	2.371	2.232	8.99
86)	1,2-Dichlorobenzene	1.403	1.381	1.404	1.379	1.376	1.362	1.384	1.19
87)	1,2,4-Trimethylbenz	1.923	2.135	2.224	2.237	2.265	2.265	2.175	6.08
88)	1,2-Dibromo-3-Chlor		0.093	0.107	0.110	0.114	0.118	0.108	8.79
89)	1,2,4-Trichlorobenz	0.695	0.627	0.755	0.826	0.855	0.864	0.770	12.39
90)	Hexachlorobutadiene	0.383	0.354	0.345	0.342	0.350	0.341	0.353	4.49
91)	Naphthalene	2.230	1.241	1.570	1.762	1.844	1.867	1.752	18.83
92)	1,2,3-Trichlorobenz	0.667	0.551	0.644	0.732	0.750	0.757	0.683	11.61

Average % RSD = 7.30004

0272

(#) = Out of Range

Instrument Performance Check (BFB)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VB399-BFB	**Injection Date:**	04/16/02
Lab File ID:	B0009234.D	**Injection Time:**	09:05
Instrument ID:	GCMSB		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11677	25.2		Pass
75	30.0 - 60.0% of mass 95	20861	45.1		Pass
95	Base peak, 100% relative abundance	46256	100.0		Pass
96	5.0 - 9.0% of mass 95	3133	6.8		Pass
173	Less than 2.0% of mass 174	297	0.64	(0.75) [a]	Pass
174	50.0 - 100.0% of mass 95	39789	86.0		Pass
175	5.0 - 9.0% of mass 174	2932	6.3	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	40040	86.6	(100.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2452	5.3	(6.1) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB399-CC398	B0009235.D	04/16/02	09:32	00:27	Continuing cal 40PPB
VB399-BS	B0009236.D	04/16/02	10:00	00:55	Blank Spike
VB399-MB	B0009237.D	04/16/02	10:28	01:23	Method Blank
F12816-5	B0009238.D	04/16/02	10:56	01:51	(used for QC only; not part of job F12878)
F12816-5MS	B0009239.D	04/16/02	11:24	02:19	Matrix Spike
F12816-5MSD	B0009240.D	04/16/02	11:52	02:47	Matrix Spike Duplicate
F12878-3	B0009244.D	04/16/02	13:52	04:47	13GLM010I01
F12878-4	B0009245.D	04/16/02	14:21	05:16	13RL041102
ZZZZZZ	B0009246.D	04/16/02	14:50	05:45	(unrelated sample)
ZZZZZZ	B0009247.D	04/16/02	15:18	06:13	(unrelated sample)
F12878-5	B0009248.D	04/16/02	15:47	06:42	13GLM09I01
F12878-10	B0009249.D	04/16/02	16:16	07:11	13GLM16D01
F12878-11	B0009250.D	04/16/02	16:44	07:39	13GLM17S01

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041602\B0009235.D
Acq On : 16 Apr 2002 9:32 am
Sample : CC398-40PPB
Misc : ms1404,vb398,5.0,,,5.0,1,water
MS Integration Params: Tiny.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 15:01:46 2002
Response via : Multiple Level Calibration

JRC 4/17/02

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	99	0.00
2		Dichlorodifluoromethane	0.241	0.203	15.8	80	0.00
3	P	Chloromethane	0.479	0.407	15.0	84	0.01
4	C	Vinyl Chloride	0.369	0.320	13.3	83	0.01
5		Bromomethane	0.196	0.180	8.2	89	0.00
6		Chloroethane	0.183	0.172	6.0	91	0.00
7		Trichlorofluoromethane	0.223	0.227	-1.8	99	0.00
8		Acrolein	0.012	0.016	-33.3#	133	0.00
9	C	1,1-Dichloroethene	0.420	0.415	1.2	95	0.00
10		Freon 113	0.194	0.191	1.5	89	0.00
11		Acetone	0.078	0.067	14.1	90	0.00
12		Iodomethane	0.289	0.282	2.4	90	-0.01
13		Methyl acetate	0.225	0.202	10.2	90	0.00
14		Carbon Disulfide	0.972	0.909	6.5	95	0.00
15		Methylene Chloride	0.488	0.460	5.7	93	0.00
16		Tert Butyl Alcohol	0.021	0.018	14.3	83	0.00
17		trans-1,2-Dichloroethene	0.393	0.375	4.6	95	0.00
18		Acrylonitrile	0.081	0.075	7.4	90	0.00
19		Methyl Tert Butyl Ether	0.575	0.560	2.6	94	0.00
20		Hexane	0.338	0.341	-0.9	100	0.00
21	P	1,1-Dichloroethane	0.478	0.466	2.5	95	0.00
22		ETBE	0.817	0.807	1.2	95	0.00
23		Vinyl acetate	0.473	0.454	4.0	94	0.00
24		Di-isopropyl ether	1.147	1.125	1.9	96	0.00
25		2,2-Dichloropropane	0.189	0.180	4.8	94	0.00
26		cis-1,2-Dichloroethene	0.270	0.260	3.7	98	0.00
27		2-Butanone	0.130	0.118	9.2	89	0.00
28		Bromochloromethane	0.105	0.105	0.0	98	0.00
29	C	Chloroform	0.407	0.376	7.6	96	-0.01
30		Tetrahydrofuran	0.087	0.078	10.3	90	0.00
31		1,1,1-Trichloroethane	0.274	0.259	5.5	93	-0.01
32	S	Dibromofluoromethane	0.210	0.209	0.5	99	0.00
33		Cyclohexane	0.482	0.469	2.7	93	0.00
34		1,1-Dichloropropene	0.287	0.287	0.0	97	0.00
35		Carbon Tetrachloride	0.213	0.205	3.8	96	0.00
36	S	1,2-Dichloroethane-d4	0.258	0.248	3.9	97	0.00
37		TAME	0.668	0.640	4.2	94	0.00
38		Benzene	1.045	1.018	2.6	97	0.00
39		1,2-Dichloroethane	0.331	0.298	10.0	95	0.00

(#) = Out of Range
B0009235.D 8260APP1.M Tue Apr 16 16:54:58 2002 RPT1 Page 1

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041602\B0009235.D
Acq On : 16 Apr 2002 9:32 am
Sample : CC398-40PPB
Misc : ms1404,vb398,5.0,,,5.0,1,water
MS Integration Params: Tiny.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 15:01:46 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.239	0.232	2.9	99	0.00
41		Methylcyclohexane	0.348	0.338	2.9	99	0.00
42	C	1,2-Dichloropropane	0.295	0.293	0.7	98	0.00
43		Dibromomethane	0.143	0.138	3.5	94	0.00
44		1,4-Dioxane	0.002	0.002	0.0	92	0.00
45		Bromodichloromethane	0.300	0.291	3.0	97	0.00
46		2-Nitropropane	0.061	0.061	0.0	95	0.00
47		2-Chloroethyl vinyl ether	0.146	0.122	16.4	83	0.00
48		4-Methyl-2-pentanone	0.290	0.273	5.9	89	0.00
49		cis-1,3-Dichloropropene	0.381	0.385	-1.0	98	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
51	S	Toluene-d8	1.372	1.349	1.7	97	0.00
52	C	Toluene	1.574	1.503	4.5	96	0.00
53		trans-1,3-Dichloropropene	0.475	0.473	0.4	94	0.00
54		1,1,2-Trichloroethane	0.295	0.279	5.4	93	0.00
55		Tetrachloroethene	0.332	0.322	3.0	97	0.00
56		2-hexanone	0.286	0.266	7.0	87	0.00
57		1,3-Dichloropropane	0.557	0.538	3.4	96	0.00
58		Dibromochloromethane	0.290	0.284	2.1	95	0.00
59		1,2-Dibromoethane	0.300	0.279	7.0	93	0.00
60		1-Chlorohexane	0.467	0.465	0.4	94	0.00
61	P	Chlorobenzene	0.936	0.905	3.3	97	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.282	2.8	97	0.00
63	C	Ethylbenzene	1.709	1.633	4.4	94	0.00
64		m,p-Xylene	1.264	1.233	2.5	96	0.00
65		o-Xylene	1.297	1.299	-0.2	95	0.00
66		Styrene	0.996	1.034	-3.8	95	0.00
67	P	Bromoform	0.224	0.216	3.6	94	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
69		Isopropylbenzene	2.478	2.413	2.6	95	0.00
70		Cyclohexanone	0.029	0.020	31.0#	86	0.00
71	S	4-Bromofluorobenzene	0.931	0.899	3.4	97	0.00
72		Bromobenzene	0.783	0.738	5.7	95	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.793	7.8	93	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.122	-0.8	93	0.00
75		1,2,3-Trichloropropane	0.184	0.165	10.3	91	0.00
76		n-Propylbenzene	3.790	3.560	6.1	94	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041602\B0009235.D
Acq On : 16 Apr 2002 9:32 am
Sample : CC398-40PPB
Misc : ms1404,vb398,5.0,,,5.0,1,water
MS Integration Params: Tiny.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 15:01:46 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.415	2.311	4.3	96	0.00
78	4-Chlorotoluene	2.187	2.099	4.0	95	0.00
79	1,3,5-Trimethylbenzene	2.114	2.036	3.7	94	0.00
80	sec-Butylbenzene	2.689	2.575	4.2	94	0.00
81	1,3-Dichlorobenzene	1.384	1.345	2.8	95	0.00
82	4-Isopropyltoluene	1.996	1.984	0.6	94	0.00
83	1,4-Dichlorobenzene	1.486	1.406	5.4	96	0.00
84	tert-Butylbenzene	1.266	1.193	5.8	93	0.00
85	n-Butylbenzene	2.232	2.276	-2.0	95	0.00
86	1,2-Dichlorobenzene	1.384	1.321	4.6	94	0.00
87	1,2,4-Trimethylbenzene	2.175	2.151	1.1	94	0.00
88	1,2-Dibromo-3-Chloropropane	0.108	0.104	3.7	92	0.00
89	1,2,4-Trichlorobenzene	0.770	0.771	-0.1	91	0.00
90	Hexachlorobutadiene	0.353	0.337	4.5	96	0.00
91	Naphthalene	1.752	1.538	12.2	85	0.00
92	1,2,3-Trichlorobenzene	0.683	0.665	2.6	89	0.00

Average % D = 5.21924

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-MB	B0009237.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-MB	B0009237.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	108%	80-120%

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-BS	B0009236.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	67-125
71-43-2	Benzene	25	22.5	90	75-125
75-27-4	Bromodichloromethane	25	21.4	86	75-125
75-25-2	Bromoform	25	19.0	76	72-125
108-90-7	Chlorobenzene	25	21.7	87	75-125
75-00-3	Chloroethane	25	24.8	99	58-136
67-66-3	Chloroform	25	21.8	87	75-125
75-15-0	Carbon disulfide	125	112	90	48-142
56-23-5	Carbon tetrachloride	25	21.6	86	75-136
75-34-3	1,1-Dichloroethane	25	22.4	90	75-125
75-35-4	1,1-Dichloroethylene	25	21.9	88	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	20.7	83	64-125
107-06-2	1,2-Dichloroethane	25	21.0	84	75-125
78-87-5	1,2-Dichloropropane	25	23.4	94	75-125
124-48-1	Dibromochloromethane	25	21.2	85	75-125
75-71-8	Dichlorodifluoromethane	25	25.9	104	48-171
156-59-2	cis-1,2-Dichloroethylene	25	22.2	89	75-129
10061-01-5	cis-1,3-Dichloropropene	25	20.3	81	75-125
541-73-1	m-Dichlorobenzene	25	22.5	90	75-125
95-50-1	o-Dichlorobenzene	25	21.8	87	75-125
106-46-7	p-Dichlorobenzene	25	22.0	88	75-125
156-60-5	trans-1,2-Dichloroethylene	25	21.1	84	73-125
540-59-0	1,2-Dichloroethene (total)	50	43.3	87	73-129
10061-02-6	trans-1,3-Dichloropropene	25	19.9	80	75-125
100-41-4	Ethylbenzene	25	21.7	87	68-135
76-13-1	Freon 113	25	23.2	93	75-125
591-78-6	2-Hexanone	125	111	89	68-125
98-82-8	Isopropylbenzene	25	23.4	94	75-125
108-10-1	4-Methyl-2-pentanone	125	115	92	75-125
74-83-9	Methyl bromide	25	23.2	93	59-146
74-87-3	Methyl chloride	25	25.6	102	50-142
75-09-2	Methylene chloride	25	23.0	92	69-125
78-93-3	Methyl ethyl ketone	125	110	88	70-125
1634-04-4	Methyl Tert Butyl Ether	25	23.4	94	75-125
100-42-5	Styrene	25	23.3	93	75-125
71-55-6	1,1,1-Trichloroethane	25	22.8	91	75-132

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB399-BS	B0009236.D	1	04/16/02	JG	n/a	n/a	VB399

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-3, F12878-4, F12878-5, F12878-10, F12878-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	21.4	86	75-125
79-00-5	1,1,2-Trichloroethane	25	21.8	87	75-125
127-18-4	Tetrachloroethylene	25	22.2	89	75-126
108-88-3	Toluene	25	22.1	88	75-125
79-01-6	Trichloroethylene	25	21.5	86	75-125
75-69-4	Trichlorofluoromethane	25	24.7	99	55-162
75-01-4	Vinyl chloride	25	25.4	102	60-147
1330-20-7	Xylene (total)	75	67.9	91	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

Instrument Performance Check (BFB)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VB400-BFB
Lab File ID: B0009257.D
Instrument ID: GCMSB
Injection Date: 04/17/02
Injection Time: 09:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6982	26.6		Pass
75	30.0 - 60.0% of mass 95	11580	44.1		Pass
95	Base peak, 100% relative abundance	26269	100.0		Pass
96	5.0 - 9.0% of mass 95	1712	6.5		Pass
173	Less than 2.0% of mass 174	168	0.64	(0.64) [a]	Pass
174	50.0 - 100.0% of mass 95	26226	99.8		Pass
175	5.0 - 9.0% of mass 174	2121	8.1	(8.1) [a]	Pass
176	95.0 - 101.0% of mass 174	26429	100.6	(100.8) [a]	Pass
177	5.0 - 9.0% of mass 176	1927	7.3	(7.3) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB400-CC398	B0009258.D	04/17/02	09:56	00:31	Continuing cal 40PPB
VB400-BS	B0009259.D	04/17/02	10:25	01:00	Blank Spike
VB400-MB	B0009260.D	04/17/02	10:53	01:28	Method Blank
F12878-6	B0009261.D	04/17/02	11:21	01:56	13GLM09S01
F12878-7	B0009262.D	04/17/02	11:50	02:25	13GLM01S01D
F12878-8	B0009263.D	04/17/02	12:18	02:53	13GLM16I01
F12878-9	B0009264.D	04/17/02	12:46	03:21	13GLM16I01D
F12878-12	B0009265.D	04/17/02	13:14	03:49	13GLM17I01
F12878-13	B0009266.D	04/17/02	13:42	04:17	13GLM17D01
F12878-7MS	B0009267.D	04/17/02	14:10	04:45	Matrix Spike
F12878-7MSD	B0009268.D	04/17/02	14:38	05:13	Matrix Spike Duplicate
F12878-2	B0009269.D	04/17/02	15:06	05:41	13GLM010S01
F12878-1	B0009270.D	04/17/02	15:37	06:12	13GLM03S01
ZZZZZZ	B0009272.D	04/17/02	16:35	07:10	(unrelated sample)
ZZZZZZ	B0009273.D	04/17/02	17:03	07:38	(unrelated sample)
ZZZZZZ	B0009274.D	04/17/02	17:34	08:09	(unrelated sample)
ZZZZZZ	B0009275.D	04/17/02	18:05	08:40	(unrelated sample)
ZZZZZZ	B0009276.D	04/17/02	18:35	09:10	(unrelated sample)
ZZZZZZ	B0009277.D	04/17/02	19:06	09:41	(unrelated sample)

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041702\B0009258.D
Acq On : 17 Apr 2002 9:56 am
Sample : CC398-40PPB
Misc : ms1404,vb400,5.0,,,5.0,1,water
MS Integration Params: Rteint.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 2002
Response via : Multiple Level Calibration

JRG 4/18/02

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.241	0.207	14.1	75	0.00
3	P	Chloromethane	0.479	0.415	13.4	79	0.00
4	C	Vinyl Chloride	0.369	0.308	16.5	74	0.00
5		Bromomethane	0.196	0.188	4.1	86	0.00
6		Chloroethane	0.183	0.170	7.1	82	0.00
7		Trichlorofluoromethane	0.223	0.244	-9.4	98	0.00
8		Acrolein	0.012	0.020	-66.7#	148	0.00
9	C	1,1-Dichloroethene	0.420	0.421	-0.2	89	0.00
10		Freon 113	0.194	0.207	-6.7	89	0.00
11		Acetone	0.078	0.077	1.3	95	0.00
12		Iodomethane	0.289	0.293	-1.4	86	0.00
13		Methyl acetate	0.225	0.226	-0.4	93	0.00
14		Carbon Disulfide	0.972	0.938	3.5	91	0.00
15		Methylene Chloride	0.488	0.487	0.2	91	0.00
16		Tert Butyl Alcohol	0.021	0.022	-4.8	91	0.00
17		trans-1,2-Dichloroethene	0.393	0.380	3.3	89	0.00
18		Acrylonitrile	0.081	0.069	14.8	76	0.00
19		Methyl Tert Butyl Ether	0.575	0.580	-0.9	90	0.00
20		Hexane	0.338	0.340	-0.6	92	0.00
21	P	1,1-Dichloroethane	0.478	0.469	1.9	88	-0.01
22		ETBE	0.817	0.818	-0.1	89	0.00
23		Vinyl acetate	0.473	0.483	-2.1	93	0.00
24		Di-isopropyl ether	1.147	1.120	2.4	88	0.00
25		2,2-Dichloropropane	0.189	0.185	2.1	89	0.00
26		cis-1,2-Dichloroethene	0.270	0.265	1.9	92	0.00
27		2-Butanone	0.130	0.136	-4.6	95	0.00
28		Bromochloromethane	0.105	0.110	-4.8	94	-0.01
29	C	Chloroform	0.407	0.384	5.7	91	0.00
30		Tetrahydrofuran	0.087	0.088	-1.1	93	-0.01
31		1,1,1-Trichloroethane	0.274	0.264	3.6	87	-0.01
32	S	Dibromofluoromethane	0.210	0.208	1.0	91	0.00
33		Cyclohexane	0.482	0.471	2.3	87	0.00
34		1,1-Dichloropropene	0.287	0.290	-1.0	90	0.00
35		Carbon Tetrachloride	0.213	0.217	-1.9	93	0.00
36	S	1,2-Dichloroethane-d4	0.258	0.252	2.3	91	0.00
37		TAME	0.668	0.675	-1.0	91	0.00
38		Benzene	1.045	1.031	1.3	91	0.00
39		1,2-Dichloroethane	0.331	0.309	6.6	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041702\B0009258.D
Acq On : 17 Apr 2002 9:56 am
Sample : CC398-40PPB
Misc : ms1404,vb400,5.0,,,5.0,1,water
MS Integration Params: Rteint.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.239	0.235	1.7	93	0.00
41		Methylcyclohexane	0.348	0.345	0.9	93	0.00
42	C	1,2-Dichloropropane	0.295	0.295	0.0	91	0.00
43		Dibromomethane	0.143	0.146	-2.1	91	0.00
44		1,4-Dioxane	0.002	0.003	-50.0#	103	0.00
45		Bromodichloromethane	0.300	0.301	-0.3	92	0.00
46		2-Nitropropane	0.061	0.069	-13.1	101	0.00
47		2-Chloroethyl vinyl ether	0.146	0.149	-2.1	93	0.00
48		4-Methyl-2-pentanone	0.290	0.314	-8.3	95	0.00
49		cis-1,3-Dichloropropene	0.381	0.400	-5.0	94	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
51	S	Toluene-d8	1.372	1.326	3.4	90	0.00
52	C	Toluene	1.574	1.500	4.7	91	0.00
53		trans-1,3-Dichloropropene	0.475	0.503	-5.9	95	0.00
54		1,1,2-Trichloroethane	0.295	0.296	-0.3	93	0.00
55		Tetrachloroethene	0.332	0.325	2.1	93	0.00
56		2-hexanone	0.286	0.311	-8.7	96	0.00
57		1,3-Dichloropropane	0.557	0.550	1.3	93	0.00
58		Dibromochloromethane	0.290	0.296	-2.1	94	0.00
59		1,2-Dibromoethane	0.300	0.304	-1.3	96	0.00
60		1-Chlorohexane	0.467	0.476	-1.9	91	0.00
61	P	Chlorobenzene	0.936	0.923	1.4	94	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.290	0.0	94	0.00
63	C	Ethylbenzene	1.709	1.680	1.7	92	0.00
64		m,p-Xylene	1.264	1.256	0.6	92	0.00
65		o-Xylene	1.297	1.333	-2.8	92	0.00
66		Styrene	0.996	1.076	-8.0	94	0.00
67	P	Bromoform	0.224	0.244	-8.9	100	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
69		Isopropylbenzene	2.478	2.421	2.3	94	0.00
70		Cyclohexanone	0.029	0.017	41.4#	74	0.00
71	S	4-Bromofluorobenzene	0.931	0.873	6.2	92	0.00
72		Bromobenzene	0.783	0.740	5.5	94	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.850	1.2	97	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.202	-66.9#	150	0.00
75		1,2,3-Trichloropropane	0.184	0.179	2.7	98	0.00
76		n-Propylbenzene	3.790	3.599	5.0	94	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041702\B0009258.D
Acq On : 17 Apr 2002 9:56 am
Sample : CC398-40PPB
Misc : ms1404,vb400,5.0,,,5.0,1,water
MS Integration Params: Rteint.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.415	2.259	6.5	92	0.00
78	4-Chlorotoluene	2.187	2.093	4.3	94	0.00
79	1,3,5-Trimethylbenzene	2.114	2.039	3.5	93	0.00
80	sec-Butylbenzene	2.689	2.667	0.8	96	0.00
81	1,3-Dichlorobenzene	1.384	1.372	0.9	95	0.00
82	4-Isopropyltoluene	1.996	2.031	-1.8	95	0.00
83	1,4-Dichlorobenzene	1.486	1.450	2.4	97	0.00
84	tert-Butylbenzene	1.266	1.203	5.0	93	0.00
85	n-Butylbenzene	2.232	2.332	-4.5	95	0.00
86	1,2-Dichlorobenzene	1.384	1.371	0.9	95	0.00
87	1,2,4-Trimethylbenzene	2.175	2.177	-0.1	93	0.00
88	1,2-Dibromo-3-Chloropropane	0.108	0.114	-5.6	100	0.00
89	1,2,4-Trichlorobenzene	0.770	0.848	-10.1	99	0.00
90	Hexachlorobutadiene	0.353	0.351	0.6	99	0.00
91	Naphthalene	1.752	1.775	-1.3	97	0.00
92	1,2,3-Trichlorobenzene	0.683	0.747	-9.4	98	0.00

Average % D = 6.11894

0327

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-MB	B0009260.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-MB	B0009260.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	107%	80-120%

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-BS	B0009259.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	120	96	67-125
71-43-2	Benzene	25	22.1	88	75-125
75-27-4	Bromodichloromethane	25	21.8	87	75-125
75-25-2	Bromoform	25	20.9	84	72-125
108-90-7	Chlorobenzene	25	22.2	89	75-125
75-00-3	Chloroethane	25	24.5	98	58-136
67-66-3	Chloroform	25	21.6	86	75-125
75-15-0	Carbon disulfide	125	112	90	48-142
56-23-5	Carbon tetrachloride	25	21.9	88	75-136
75-34-3	1,1-Dichloroethane	25	22.2	89	75-125
75-35-4	1,1-Dichloroethylene	25	21.6	86	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	21.3	85	64-125
107-06-2	1,2-Dichloroethane	25	20.6	82	75-125
78-87-5	1,2-Dichloropropane	25	23.7	95	75-125
124-48-1	Dibromochloromethane	25	21.8	87	75-125
75-71-8	Dichlorodifluoromethane	25	25.6	102	48-171
156-59-2	cis-1,2-Dichloroethylene	25	22.2	89	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.0	84	75-125
541-73-1	m-Dichlorobenzene	25	22.0	88	75-125
95-50-1	o-Dichlorobenzene	25	21.9	88	75-125
106-46-7	p-Dichlorobenzene	25	21.5	86	75-125
156-60-5	trans-1,2-Dichloroethylene	25	21.0	84	73-125
540-59-0	1,2-Dichloroethene (total)	50	43.2	86	73-129
10061-02-6	trans-1,3-Dichloropropene	25	20.3	81	75-125
100-41-4	Ethylbenzene	25	21.7	87	68-135
76-13-1	Freon 113	25	24.3	97	75-125
591-78-6	2-Hexanone	125	122	98	68-125
98-82-8	Isopropylbenzene	25	22.8	91	75-125
108-10-1	4-Methyl-2-pentanone	125	125	100	75-125
74-83-9	Methyl bromide	25	22.3	89	59-146
74-87-3	Methyl chloride	25	25.0	100	50-142
75-09-2	Methylene chloride	25	21.0	84	69-125
78-93-3	Methyl ethyl ketone	125	119	95	70-125
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	75-125
100-42-5	Styrene	25	23.1	92	75-125
71-55-6	1,1,1-Trichloroethane	25	22.1	88	75-132

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB400-BS	B0009259.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	21.9	88	75-125
79-00-5	1,1,2-Trichloroethane	25	21.8	87	75-125
127-18-4	Tetrachloroethylene	25	22.1	88	75-126
108-88-3	Toluene	25	21.7	87	75-125
79-01-6	Trichloroethylene	25	21.6	86	75-125
75-69-4	Trichlorofluoromethane	25	25.7	103	55-162
75-01-4	Vinyl chloride	25	24.7	99	60-147
1330-20-7	Xylene (total)	75	67.1	89	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	80-120%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12878-7MS	B0009267.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7MSD	B0009268.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7	B0009262.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	F12878-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	26.1		125	156	104	150	99	4	61-125/15
71-43-2	Benzene	ND		25	22.9	92	22.3	89	3	75-125/15
75-27-4	Bromodichloromethane	ND		25	21.2	85	20.9	84	1	75-125/15
75-25-2	Bromoform	ND		25	17.8	71	16.6	66	7	66-125/15
108-90-7	Chlorobenzene	ND		25	22.0	88	21.3	85	3	75-125/15
75-00-3	Chloroethane	ND		25	21.7	87	21.0	84	3	53-125/15
67-66-3	Chloroform	ND		25	21.8	87	21.7	87	0	75-125/15
75-15-0	Carbon disulfide	ND		125	112	90	105	84	6	51-138/15
56-23-5	Carbon tetrachloride	ND		25	20.3	81	21.0	84	3	74-131/15
75-34-3	1,1-Dichloroethane	42.1		25	90.6	194*	89.6	190*	1	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	24.2	97	22.9	92	6	66-140/15
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	24.9	100	23.6	94	5	57-125/15
107-06-2	1,2-Dichloroethane	ND		25	20.4	82	21.2	85	4	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	23.7	95	22.7	91	4	75-125/15
124-48-1	Dibromochloromethane	ND		25	20.4	82	19.8	79	3	75-125/15
75-71-8	Dichlorodifluoromethane	ND		25	22.3	89	20.9	84	6	45-182/15
156-59-2	cis-1,2-Dichloroethylene	2.4		25	25.0	90	25.0	90	0	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	17.0	68*	17.0	68*	0	71-125/15
541-73-1	m-Dichlorobenzene	ND		25	22.1	88	22.0	88	0	75-125/15
95-50-1	o-Dichlorobenzene	ND		25	22.1	88	21.3	85	4	75-125/15
106-46-7	p-Dichlorobenzene	ND		25	21.5	86	21.3	85	1	75-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	20.6	82	21.0	84	2	73-125/15
540-59-0	1,2-Dichloroethene (total)	2.4		50	45.6	86	45.9	87	1	73-136/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	15.0	60*	15.2	61*	1	62-125/15
100-41-4	Ethylbenzene	7.6		25	33.7	104	33.0	102	2	75-125/15
76-13-1	Freon 113	ND		25	23.1	92	22.2	89	4	69-131/15
591-78-6	2-Hexanone	ND		125	139	111	129	103	7	71-125/15
98-82-8	Isopropylbenzene	ND		25	23.2	93	24.9	100	7	74-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	132	106	124	99	6	75-125/15
74-83-9	Methyl bromide	ND		25	19.7	79	18.4	74	7	67-146/15
74-87-3	Methyl chloride	ND		25	21.3	85	19.4	78	9	47-160/15
75-09-2	Methylene chloride	ND		25	21.9	88	20.2	81	8	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	120	96	113	90	6	70-125/15
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.5	94	24.0	96	2	75-125/15
100-42-5	Styrene	ND		25	24.2	97	22.7	91	6	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	23.1	92	24.0	96	4	75-131/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12878-7MS	B0009267.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7MSD	B0009268.D	1	04/17/02	JG	n/a	n/a	VB400
F12878-7	B0009262.D	1	04/17/02	JG	n/a	n/a	VB400

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12878-1, F12878-2, F12878-6, F12878-7, F12878-8, F12878-9, F12878-12, F12878-13

CAS No.	Compound	F12878-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.9	88	22.9	92	4	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	21.8	87	21.8	87	0	75-125/15
127-18-4	Tetrachloroethylene	ND		25	22.8	91	23.2	93	2	75-125/15
108-88-3	Toluene	39.5		25	91.2	207*	91.6	208*	0	75-125/15
79-01-6	Trichloroethylene	2.7		25	25.4	91	25.6	92	1	75-125/15
75-69-4	Trichlorofluoromethane	ND		25	22.4	90	22.9	92	2	60-139/30
75-01-4	Vinyl chloride	ND		25	22.1	88	20.8	83	6	52-169/15
1330-20-7	Xylene (total)	50.3		75	148	130*	146	128*	1	75-125/15

CAS No.	Surrogate Recoveries	MS	MSD	F12878-7	Limits
1868-53-7	Dibromofluoromethane	100%	103%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	106%	101%	80-120%
2037-26-5	Toluene-D8	96%	100%	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	105%	98%	80-120%

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT Panama City CTO-184		JOB NUMBER Job-2834 SDG-F12863	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY	DATE 20-May-02

Sample 13GLM03501

Toluene = 289 ug/L

$$\left(\frac{(2719831)(50\ ug/L)}{(1496565)(Toluene)}\right) = 1.574$$

$$Toluene = 57.73\ ug/L\ (5) = 288.6\ ug/L - OK$$

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0009270.D	5	04/17/02	JG	n/a	n/a	VB400
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	61.0	25	ug/l	
71-43-2	Benzene	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
108-90-7	Chlorobenzene	4.8	5.0	ug/l	J
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	25	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	83.4	5.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	4.3	25	ug/l	J
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethylene	4.5	5.0	ug/l	J
108-88-3	Toluene	289	5.0	ug/l	
79-01-6	Trichloroethylene	13.6	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	211	15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	109%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\041702\B0009270.D Vial: 12
Acq On : 17 Apr 2002 3:37 pm Operator: JuanG
Sample : F12878-1,1ml Inst : MSVOA4
Misc : ms1463,vb400,1.0,,,5.0,5,water Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Apr 17 16:49:58 2002 Quant Results File: 8260APP1.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 2002
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.07	96	2149266	50.00	ug/L	0.00
50) Chlorobenzene-d5	13.33	117	1496565	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	15.88	152	818060	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane	9.35	113	517796	57.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.70%			
36) 1,2-Dichloroethane-d4	9.76	65	644696	58.23	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 116.46%			
51) Toluene-d8	11.72	98	1972243	48.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.08%			
71) 4-Bromofluorobenzene	14.59	95	832711	54.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.34%			

Target Compounds						Qvalue
11) Acetone	6.79	43	41038	12.20	ug/L	97
40) Trichloroethene	10.45	95	28003	2.73	ug/L	97
48) 4-Methyl-2-pentanone	11.56	43	10772	0.86	ug/L	95
52) Toluene	11.80	91	2719831	57.73	ug/L	98
55) Tetrachloroethene	12.38	166	8897	0.90	ug/L	92
61) Chlorobenzene	13.36	112	26930	0.96	ug/L	82
63) Ethylbenzene	13.40	91	853409	16.68	ug/L	100
64) m,p-Xylene	13.52	91	1091326	28.84	ug/L	99
65) o-Xylene	13.97	91	515676	13.29	ug/L	98
79) 1,3,5-Trimethylbenzene	14.96	105	61636	1.78	ug/L	93
85) n-Butylbenzene	16.17	91	14401	0.39	ug/L	77
87) 1,2,4-Trimethylbenzene	15.40	105	152496	4.29	ug/L	99
91) Naphthalene	18.44	128	146640	6.46	ug/L	98

(#) = qualifier out of range (m) = manual integration

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\041702\B0009258.D
Acq On : 17 Apr 2002 9:56 am
Sample : CC398-40PPB
Misc : ms1404,vb400,5.0,,,5.0,1,water
MS Integration Params: Rteint.p

Vial: 1
Operator: JuanG
Inst : MSVOA4
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\8260APP1.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Apr 16 14:17:31 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.239	0.235	1.7	93	0.00
41		Methylcyclohexane	0.348	0.345	0.9	93	0.00
42	C	1,2-Dichloropropane	0.295	0.295	0.0	91	0.00
43		Dibromomethane	0.143	0.146	-2.1	91	0.00
44		1,4-Dioxane	0.002	0.003	-50.0#	103	0.00
45		Bromodichloromethane	0.300	0.301	-0.3	92	0.00
46		2-Nitropropane	0.061	0.069	-13.1	101	0.00
47		2-Chloroethyl vinyl ether	0.146	0.149	-2.1	93	0.00
48		4-Methyl-2-pentanone	0.290	0.314	-8.3	95	0.00
49		cis-1,3-Dichloropropene	0.381	0.400	-5.0	94	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
51	S	Toluene-d8	1.372	1.326	3.4	90	0.00
52	C	Toluene	1.574	1.500	4.7	91	0.00
53		trans-1,3-Dichloropropene	0.475	0.503	-5.9	95	0.00
54		1,1,2-Trichloroethane	0.295	0.296	-0.3	93	0.00
55		Tetrachloroethene	0.332	0.325	2.1	93	0.00
56		2-hexanone	0.286	0.311	-8.7	96	0.00
57		1,3-Dichloropropane	0.557	0.550	1.3	93	0.00
58		Dibromochloromethane	0.290	0.296	-2.1	94	0.00
59		1,2-Dibromoethane	0.300	0.304	-1.3	96	0.00
60		1-Chlorohexane	0.467	0.476	-1.9	91	0.00
61	P	Chlorobenzene	0.936	0.923	1.4	94	0.00
62		1,1,1,2-Tetrachloroethane	0.290	0.290	0.0	94	0.00
63	C	Ethylbenzene	1.709	1.680	1.7	92	0.00
64		m,p-Xylene	1.264	1.256	0.6	92	0.00
65		o-Xylene	1.297	1.333	-2.8	92	0.00
66		Styrene	0.996	1.076	-8.0	94	0.00
67	P	Bromoform	0.224	0.244	-8.9	100	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
69		Isopropylbenzene	2.478	2.421	2.3	94	0.00
70		Cyclohexanone	0.029	0.017	41.4#	74	0.00
71	S	4-Bromofluorobenzene	0.931	0.873	6.2	92	0.00
72		Bromobenzene	0.783	0.740	5.5	94	0.00
73	P	1,1,2,2-Tetrachloroethane	0.860	0.850	1.2	97	0.00
74		trans-1,4-Dichloro-2-Butene	0.121	0.202	-66.9#	150	0.00
75		1,2,3-Trichloropropane	0.184	0.179	2.7	98	0.00
76		n-Propylbenzene	3.790	3.599	5.0	94	0.00

(#) = Out of Range

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1		Pass
68	Less than 2.0% of mass 69	218	0.1	(0.29) [a]	Pass
69	Mass 69 relative abundance	74456	35.3		Pass
70	Less than 2.0% of mass 69	377	0.18	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	92498	43.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	211051	100.0		Pass
199	5.0 - 9.0% of mass 198	14373	6.8		Pass
275	10.0 - 30.0% of mass 198	45157	21.4		Pass
365	1.0 - 100.0% of mass 198	4255	2.0		Pass
441	Present, but less than mass 443	28291	13.4	(76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	187979	89.1		Pass
443	17.0 - 23.0% of mass 442	36795	17.4	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job F12878)
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job F12878)
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW518-DFTPP
Lab File ID: W009333.D
Instrument ID: GCMSW
Injection Date: 04/11/02
Injection Time: 09:03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files

5	=W009335.D	25	=W009336.D	50	=W009334.D
75	=W009337.D	100	=W009338.D	125	=W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------	----------	----------	ISTD	----------	----------	----------	
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------	----------	----------	ISTD	----------	----------	----------	

0518

(#) = Out of Range Average % RSD = 10.2642

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22
45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19 out
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74

Average % RSD = 5.199601

0519

(#) = Out of Range

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.46434

0520

(#) = Out of Range

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6) [a]	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9) [b]	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
ZZZZZZ	W009522.D	04/23/02	11:22	01:19	(unrelated sample)
ZZZZZZ	W009523.D	04/23/02	11:52	01:49	(unrelated sample)
ZZZZZZ	W009524.D	04/23/02	12:23	02:20	(unrelated sample)
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
ZZZZZZ	W009527.D	04/23/02	13:53	03:50	(unrelated sample)
F12878-1	W009528.D	04/23/02	14:24	04:21	13GLM03S01
F12878-2	W009529.D	04/23/02	14:54	04:51	13GLM010S01
F12878-3	W009530.D	04/23/02	15:24	05:21	13GLM010I01
F12878-4	W009531.D	04/23/02	15:54	05:51	13RL041102
F12878-5	W009532.D	04/23/02	16:25	06:22	13GLM09I01
F12878-6	W009533.D	04/23/02	16:54	06:51	13GLM09S01
F12878-7	W009534.D	04/23/02	17:24	07:21	13GLM01S01D
F12878-8	W009535.D	04/23/02	17:55	07:52	13GLM16I01
F12878-9	W009536.D	04/23/02	18:25	08:22	13GLM16I01D
F12878-10	W009537.D	04/23/02	18:55	08:52	13GLM16D01
F12878-11	W009538.D	04/23/02	19:24	09:21	13GLM17S01

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW527-DFTPP	**Injection Date:**	04/23/02
Lab File ID:	W009519.D	**Injection Time:**	10:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	(used for QC only; not part of job F12878)
F12878-12	W009542.D	04/23/02	21:25	11:22	13GLM17I01
F12878-13	W009543.D	04/23/02	21:55	11:52	13GLM17D01
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job F12878)
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D
Acq On : 23 Apr 2002 10:22 am
Sample : cc518-50
Misc : op4979,sw527,1000,,,1,1,water
MS Integration Params: LSCINT.P

Vial: 2
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/24/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01

0571

ACCUTEST

Facsimile Transmittal

To: Bernie/TetraTech Fax: 412 921 4040

From: Mary - Report Generation Date: 5/20/02

Re: F12878 - CC for 8210 Pages: 3 (Including Cover Sheet)

CC: let me know if you need anything else.

Mary

☐ Urgent ☑ For Review ☐ Please Comment

☐ Please Reply ☐ Please Recycle

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D
Acq On : 23 Apr 2002 10:22 am
Sample : cc518-50
Misc : op4979,sw527,1000,,,1,1,water
MS Integration Params: LSCINT.P

Vial: 2
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/24/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00

44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009334.D 8270C.M Tue Apr 23 10:45:48 2002 MSBNA01

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	20-125%
4165-62-2	Phenol-d5	31%	10-125%
118-79-6	2,4,6-Tribromophenol	77%	35-140%
4165-60-0	Nitrobenzene-d5	69%	46-125%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009526.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	68%	46-125%
1718-51-0	Terphenyl-d14	88%	49-126%

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	20.7	41*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	31.1	62*	70-125
120-83-2	2,4-Dichlorophenol	50	22.6	45*	68-125
105-67-9	2,4-Dimethylphenol	50	28.0	56	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	30.7	61	51-125
	3&4-Methylphenol	100	52.1	52	46-125
88-75-5	2-Nitrophenol	50	22.0	44*	64-125
100-02-7	4-Nitrophenol	50	2.8	6*	17-125
87-86-5	Pentachlorophenol	50	11.8	24*	60-125
108-95-2	Phenol	50	13.5	27	16-125
95-95-4	2,4,5-Trichlorophenol	50	23.2	46*	74-125
88-06-2	2,4,6-Trichlorophenol	50	20.0	40*	70-125
83-32-9	Acenaphthene	50	44.9	90	70-125
208-96-8	Acenaphthylene	50	52.6	105	75-125
120-12-7	Anthracene	50	50.1	100	75-125
56-55-3	Benzo(a)anthracene	50	50.0	100	75-125
50-32-8	Benzo(a)pyrene	50	51.3	103	75-125
205-99-2	Benzo(b)fluoranthene	50	46.9	94	75-125
191-24-2	Benzo(g,h,i)perylene	50	54.0	108	57-135
207-08-9	Benzo(k)fluoranthene	50	48.2	96	75-125
101-55-3	4-Bromophenyl phenyl ether	50	47.9	96	74-125
85-68-7	Butyl benzyl phthalate	50	49.2	98	38-134
91-58-7	2-Chloronaphthalene	50	46.2	92	59-125
106-47-8	4-Chloroaniline	50	46.3	93	31-125
86-74-8	Carbazole	50	49.2	98	75-125
218-01-9	Chrysene	50	47.9	96	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	43.1	86	64-125
111-44-4	bis(2-Chloroethyl)ether	50	41.9	84	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	45.7	91	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	49.0	98	75-125
121-14-2	2,4-Dinitrotoluene	50	47.9	96	73-125
606-20-2	2,6-Dinitrotoluene	50	49.6	99	75-125
91-94-1	3,3'-Dichlorobenzidine	50	54.0	108	55-125
53-70-3	Dibenzo(a,h)anthracene	50	53.0	106	64-130

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	44.6	89	73-125
84-74-2	Di-n-butyl phthalate	50	49.7	99	47-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	52-125
84-66-2	Diethyl phthalate	50	48.5	97	59-125
131-11-3	Dimethyl phthalate	50	48.9	98	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.5	105	71-125
206-44-0	Fluoranthene	50	49.9	100	75-125
86-73-7	Fluorene	50	48.4	97	75-125
87-68-3	Hexachlorobutadiene	50	35.4	71	22-125
77-47-4	Hexachlorocyclopentadiene	50	26.2	52	10-125
67-72-1	Hexachloroethane	50	36.4	73	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	52.8	106	53-130
90-12-0	1-Methylnaphthalene	50	40.4	81	55-125
91-57-6	2-Methylnaphthalene	50	41.0	82	51-125
88-74-4	2-Nitroaniline	50	48.1	96	75-125
99-09-2	3-Nitroaniline	50	48.1	96	62-125
100-01-6	4-Nitroaniline	50	51.3	103	67-125
91-20-3	Naphthalene	50	42.6	85	53-125
98-95-3	Nitrobenzene	50	43.9	88	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	44.4	89	61-125
86-30-6	N-Nitrosodiphenylamine	50	52.3	105	75-125
85-01-8	Phenanthrene	50	46.8	94	75-125
129-00-0	Pyrene	50	46.8	94	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	28%	20-125%
4165-62-2	Phenol-d5	22%	10-125%
118-79-6	2,4,6-Tribromophenol	51%	35-140%
4165-60-0	Nitrobenzene-d5	86%	46-125%
321-60-8	2-Fluorobiphenyl	87%	46-125%
1718-51-0	Terphenyl-d14	98%	49-126%

(a) Recovery within control limits in MS/MSD.

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW528-DFTPP	**Injection Date:**	04/24/02
Lab File ID:	W009555.D	**Injection Time:**	15:09
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	97809	57.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	68655	40.1		Pass
70	Less than 2.0% of mass 69	347	0.2	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	79722	46.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	171025	100.0		Pass
199	5.0 - 9.0% of mass 198	11119	6.5		Pass
275	10.0 - 30.0% of mass 198	33556	19.6		Pass
365	1.0 - 100.0% of mass 198	3085	1.8		Pass
441	Present, but less than mass 443	18476	10.8	(78.5) [b]	Pass
442	40.0 - 100.0% of mass 198	122253	71.5		Pass
443	17.0 - 23.0% of mass 442	23527	13.8	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW528-CC518	W009556.D	04/24/02	15:27	00:18	Continuing cal 75
OP4993-BS	W009557.D	04/24/02	15:57	00:48	Blank Spike
OP4993-MB	W009558.D	04/24/02	16:27	01:18	Method Blank
OP4993-MS	W009559.D	04/24/02	16:57	01:48	Matrix Spike
OP4993-MSD	W009560.D	04/24/02	17:28	02:19	Matrix Spike Duplicate
ZZZZZZ	W009561.D	04/24/02	17:58	02:49	(unrelated sample)
ZZZZZZ	W009562.D	04/24/02	18:28	03:19	(unrelated sample)
ZZZZZZ	W009563.D	04/24/02	18:58	03:49	(unrelated sample)
ZZZZZZ	W009564.D	04/24/02	19:28	04:19	(unrelated sample)
ZZZZZZ	W009565.D	04/24/02	19:58	04:49	(unrelated sample)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042402\W009556.D Vial: 2
Acq On : 24 Apr 2002 3:27 pm Operator: marke
Sample : cc518-75 Inst : MSBNA01
Misc : op5023,sw528,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/25/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.445	0.474	-6.5	88	0.00
3		N-nitrosodimethylamine	0.558	0.542	2.9	75	-0.08
4		Pyridine	1.008	1.044	-3.6	85	-0.07
5		Benzaldehyde	0.502	0.489	2.6	96	-0.01
6		Aniline	1.505	1.410	6.3	85	-0.01
7	S	2-Fluorophenol	1.207	1.175	2.7	88	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.270	-0.3	87	-0.01
9	S	Phenol-d5	1.457	1.382	5.1	88	0.00
10	C	Phenol	1.599	1.524	4.7	89	-0.01
11		2-Chlorophenol	1.394	1.338	4.0	85	-0.01
12		1,3-Dichlorobenzene	1.523	1.471	3.4	87	0.00
13	C	1,4-Dichlorobenzene	1.484	1.450	2.3	88	0.00
14		1,2-Dichlorobenzene	1.387	1.367	1.4	88	-0.01
15		Benzyl alcohol	0.859	0.830	3.4	85	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.782	0.9	91	-0.01
17		2-Methylphenol	1.143	1.082	5.3	85	0.00
18		Acetophenone	1.539	1.385	10.0	84	0.00
19		Hexachloroethane	0.548	0.538	1.8	88	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.706	10.9	82	-0.01
21		3&4-Methylphenol	1.094	0.989	9.6	85	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
23	S	Nitrobenzene-d5	0.369	0.361	2.2	85	0.00
24		Nitrobenzene	0.351	0.346	1.4	86	-0.01
25		Isophorone	0.640	0.594	7.2	82	-0.01
26	C	2-Nitrophenol	0.212	0.207	2.4	86	0.00
27		2,4-Dimethylphenol	0.344	0.322	6.4	83	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.363	6.4	85	0.00
29		Benzoic Acid	0.247	0.256	-3.6	82	0.02
30	C	2,4-Dichlorophenol	0.304	0.295	3.0	86	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	85	0.00
32		Naphthalene	0.959	0.918	4.3	85	0.00
33		4-Chloroaniline	0.350	0.321	8.3	84	0.00
34		2,6-Dichlorophenol	0.288	0.271	5.9	85	0.00
35	C	Hexachlorobutadiene	0.179	0.169	5.6	84	0.00
36		Caprolactam	0.194	0.180	7.2	80	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.258	6.5	82	0.00
38		2-Methylnaphthalene	0.647	0.614	5.1	83	0.00
39		1-Methylnaphthalene	0.614	0.575	6.4	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.257	6.5	85	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	79	-0.01
42	P	Hexachlorocyclopentadiene	0.282	0.285	1.1	77	0.00

0578

44		2,4,5-Trichlorophenol	0.423	0.419	0.9	81	-0.02
45	S	2-Fluorobiphenyl	1.362	1.342	1.5	82	-0.02
46		1,1'-Biphenyl	1.455	1.439	1.1	82	-0.02
47		2-Chloronaphthalene	1.182	1.193	-0.9	84	-0.02
48		2-Nitroaniline	0.357	0.360	-0.8	81	-0.02
49		Acenaphthylene	1.551	1.527	1.5	80	-0.02
50		Dimethylphthalate	1.254	1.199	4.4	78	-0.02
51		2,6-Dinitrotoluene	0.292	0.287	1.7	78	-0.01
52	C	Acenaphthene	1.083	1.056	2.5	81	-0.02
53		3-Nitroaniline	0.319	0.308	3.4	76	-0.01
54	P	2,4-Dinitrophenol	0.167	0.152	9.0	70	-0.01
55		Dibenzofuran	1.534	1.495	2.5	83	-0.01
56		2,4-Dinitrotoluene	0.348	0.340	2.3	81	-0.01
57	P	4-Nitrophenol	0.142	0.130	8.5	73	0.00
58		2,3,4,6-Tetrachlorophenol	0.281	0.266	5.3	77	0.00
59		Fluorene	1.173	1.141	2.7	81	0.00
60		4-Chlorophenyl-phenylether	0.544	0.528	2.9	82	0.00
61		Diethylphthalate	1.121	1.031	8.0	74	0.00
62		4-Nitroaniline	0.281	0.279	0.7	80	-0.02
63	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
64		4,6-Dinitro-2-methylphenol	0.174	0.164	5.7	73	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.612	1.6	78	-0.02
66		1,2-Diphenylhydrazine	0.886	0.866	2.3	78	-0.03
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	77	-0.03
68		4-Bromophenyl-phenylether	0.213	0.210	1.4	78	-0.02
69		Hexachlorobenzene	0.213	0.205	3.8	78	-0.02
70		Atrazine	0.095	0.073	23.2#	63	-0.01
71	C	Pentachlorophenol	0.131	0.114	13.0	66	-0.01
72		Phenanthrene	1.155	1.113	3.6	78	-0.01
73		Anthracene	1.146	1.094	4.5	77	-0.02
74		Carbazole	1.095	1.049	4.2	78	-0.01
75		Di-n-butylphthalate	1.238	1.121	9.5	72	0.00
76	C	Fluoranthene	1.088	1.006	7.5	76	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	80	-0.02
78		Benzidine	0.192	0.132	31.3#	69	-0.03
79		Pyrene	1.874	1.825	2.6	76	-0.04
80	S	Terphenyl-d14	1.108	1.058	4.5	74	-0.03
81		Butylbenzylphthalate	0.761	0.714	6.2	72	-0.01
82		3,3'-Dichlorobenzidine	0.346	0.354	-2.3	85	-0.01
83		Benzo[a]anthracene	1.303	1.282	1.6	77	-0.01
84		Chrysene	1.276	1.240	2.8	76	-0.02
85		bis(2-Ethylhexyl)phthalate	0.948	0.849	10.4	68	0.00
86	I	Perylene-d12	1.000	1.000	0.0	76	-0.02
87	C	Di-n-octylphthalate	2.177	1.994	8.4	67	-0.02
88		Benzo[b]fluoranthene	1.460	1.415	3.1	73	-0.02
89		Benzo[k]fluoranthene	1.498	1.439	3.9	76	-0.03
90	C	Benzo[a]pyrene	1.267	1.263	0.3	76	-0.02
91		Indeno[1,2,3-cd]pyrene	0.945	0.995	-5.3	81	0.00
92		Dibenz[a,h]anthracene	1.019	1.074	-5.4	80	-0.01
93		Benzo[g,h,i]perylene	1.028	1.062	-3.3	81	-0.02

Average % D = 4.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009337.D 8270C.M Thu Apr 25 09:01:57 2002 MSBNA01

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	20-125%
4165-62-2	Phenol-d5	32%	10-125%
118-79-6	2,4,6-Tribromophenol	79%	35-140%
4165-60-0	Nitrobenzene-d5	70%	46-125%

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB	W009558.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	66%	46-125%
1718-51-0	Terphenyl-d14	84%	49-126%

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	23.1	46*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	35.5	71	70-125
120-83-2	2,4-Dichlorophenol	50	25.7	51*	68-125
105-67-9	2,4-Dimethylphenol	50	24.3	49	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	33.6	67	51-125
	3&4-Methylphenol	100	58.4	58	46-125
88-75-5	2-Nitrophenol	50	25.2	50*	64-125
100-02-7	4-Nitrophenol	50	3.1	6*	17-125
87-86-5	Pentachlorophenol	50	11.3	23*	60-125
108-95-2	Phenol	50	15.0	30	16-125
95-95-4	2,4,5-Trichlorophenol	50	26.3	53*	74-125
88-06-2	2,4,6-Trichlorophenol	50	22.1	44*	70-125
83-32-9	Acenaphthene	50	48.7	97	70-125
208-96-8	Acenaphthylene	50	56.6	113	75-125
120-12-7	Anthracene	50	56.0	112	75-125
56-55-3	Benzo(a)anthracene	50	54.4	109	75-125
50-32-8	Benzo(a)pyrene	50	57.9	116	75-125
205-99-2	Benzo(b)fluoranthene	50	54.2	108	75-125
191-24-2	Benzo(g,h,i)perylene	50	58.2	116	57-135
207-08-9	Benzo(k)fluoranthene	50	54.6	109	75-125
101-55-3	4-Bromophenyl phenyl ether	50	52.6	105	74-125
85-68-7	Butyl benzyl phthalate	50	53.2	106	38-134
91-58-7	2-Chloronaphthalene	50	50.8	102	59-125
106-47-8	4-Chloroaniline	50	52.4	105	31-125
86-74-8	Carbazole	50	55.0	110	75-125
218-01-9	Chrysene	50	52.7	105	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	48.6	97	64-125
111-44-4	bis(2-Chloroethyl)ether	50	47.9	96	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	50.6	101	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	52.4	105	75-125
121-14-2	2,4-Dinitrotoluene	50	54.2	108	73-125
606-20-2	2,6-Dinitrotoluene	50	55.0	110	75-125
91-94-1	3,3'-Dichlorobenzidine	50	57.5	115	55-125
53-70-3	Dibenzo(a,h)anthracene	50	57.2	114	64-130

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	48.7	97	73-125
84-74-2	Di-n-butyl phthalate	50	54.4	109	47-140
117-84-0	Di-n-octyl phthalate	50	51.2	102	52-125
84-66-2	Diethyl phthalate	50	52.2	104	59-125
131-11-3	Dimethyl phthalate	50	52.9	106	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.7	103	71-125
206-44-0	Fluoranthene	50	55.2	110	75-125
86-73-7	Fluorene	50	52.6	105	75-125
87-68-3	Hexachlorobutadiene	50	39.3	79	22-125
77-47-4	Hexachlorocyclopentadiene	50	30.5	61	10-125
67-72-1	Hexachloroethane	50	40.4	81	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	57.1	114	53-130
90-12-0	1-Methylnaphthalene	50	46.0	92	55-125
91-57-6	2-Methylnaphthalene	50	45.7	91	51-125
88-74-4	2-Nitroaniline	50	53.4	107	75-125
99-09-2	3-Nitroaniline	50	54.0	108	62-125
100-01-6	4-Nitroaniline	50	57.0	114	67-125
91-20-3	Naphthalene	50	48.9	98	53-125
98-95-3	Nitrobenzene	50	50.1	100	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	50.7	101	61-125
86-30-6	N-Nitrosodiphenylamine	50	58.1	116	75-125
85-01-8	Phenanthrene	50	53.4	107	75-125
129-00-0	Pyrene	50	52.1	104	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	30%	20-125%
4165-62-2	Phenol-d5	25%	10-125%
118-79-6	2,4,6-Tribromophenol	56%	35-140%
4165-60-0	Nitrobenzene-d5	98%	46-125%
321-60-8	2-Fluorobiphenyl	96%	46-125%
1718-51-0	Terphenyl-d14	106%	49-126%

(a) Recovery within control limits in MS/MSD.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	89.7	90	83.3	83	7	59-125/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	91.3	91	86.1	86	6	72-125/20
120-83-2	2,4-Dichlorophenol	ND		100	94.5	95	89.3	89	6	65-125/20
105-67-9	2,4-Dimethylphenol	ND		100	57.7	58	57.2	57	1	37-125/20
51-28-5	2,4-Dinitrophenol	ND		100	47.4	47	68.8	69	37	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		100	78.1	78	80.2	80	3	54-125/20
95-48-7	2-Methylphenol	ND		100	88.7	89	85.0	85	4	57-125/20
	3&4-Methylphenol	ND		200	174	87	164	82	6	55-125/20
88-75-5	2-Nitrophenol	ND		100	95.1	95	88.5	89	7	67-125/20
100-02-7	4-Nitrophenol	ND		100	57.1	57	59.1	59	3	41-125/23
87-86-5	Pentachlorophenol	ND		100	74.9	75	68.6	69	9	67-126/20
108-95-2	Phenol	ND		100	67.6	68	65.2	65	4	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		100	99.7	100	91.8	92	8	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		100	94.3	94	87.7	88	7	70-125/20
83-32-9	Acenaphthene	ND		100	95.5	96	89.3	89	7	74-125/20
208-96-8	Acenaphthylene	ND		100	112	112	105	105	6	75-125/20
120-12-7	Anthracene	ND		100	103	103	97.4	97	6	75-125/20
56-55-3	Benzo(a)anthracene	ND		100	99.6	100	93.8	94	6	75-125/20
50-32-8	Benzo(a)pyrene	ND		100	105	105	99.6	100	5	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		100	98.0	98	94.1	94	4	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		100	107	107	99.5	100	7	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		100	99.8	100	95.2	95	5	75-125/20
101-55-3	4-Bromophenyl phenyl ether	ND		100	100	100	95.8	96	4	73-125/20
85-68-7	Butyl benzyl phthalate	ND		100	95.8	96	89.8	90	6	66-125/20
91-58-7	2-Chloronaphthalene	ND		100	99.0	99	96.0	96	3	64-125/20
106-47-8	4-Chloroaniline	ND		100	91.1	91	85.1	85	7	44-125/20
86-74-8	Carbazole	ND		100	103	103	96.5	97	7	75-125/20
218-01-9	Chrysene	ND		100	97.8	98	89.8	90	9	75-125/20
111-91-1	bis(2-Chloroethoxy)methane	ND		100	95.6	96	89.6	90	6	62-125/20
111-44-4	bis(2-Chloroethyl)ether	ND		100	94.0	94	89.9	90	4	61-125/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	99.8	100	94.5	95	5	56-125/22
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	99.2	99	93.1	93	6	75-125/20
121-14-2	2,4-Dinitrotoluene	ND		100	99.5	100	94.1	94	6	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		100	102	102	96.7	97	5	75-125/20
91-94-1	3,3'-Dichlorobenzidine	ND		100	99.8	100	90.6	91	10	20-125/29
53-70-3	Dibenzo(a,h)anthracene	ND		100	102	102	95.3	95	7	64-127/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		100	94.9	95	90.0	90	5	73-125/20
84-74-2	Di-n-butyl phthalate	ND		100	98.3	98	93.8	94	5	71-125/20
117-84-0	Di-n-octyl phthalate	ND		100	96.4	96	85.9	86	12	66-125/30
84-66-2	Diethyl phthalate	ND		100	95.4	95	89.0	89	7	64-125/20
131-11-3	Dimethyl phthalate	ND		100	99.6	100	92.4	92	7	32-139/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	101	101	89.2	89	12	74-125/20
206-44-0	Fluoranthene	ND		100	102	102	93.7	94	8	75-125/20
86-73-7	Fluorene	ND		100	102	102	94.2	94	8	75-125/20
87-68-3	Hexachlorobutadiene	ND		100	78.8	79	75.4	75	4	26-125/21
77-47-4	Hexachlorocyclopentadiene	ND		100	58.9	59	72.3	72	20	18-125/27
67-72-1	Hexachloroethane	ND		100	78.3	78	76.5	77	2	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	105	105	96.5	97	8	54-125/20
90-12-0	1-Methylnaphthalene	ND		100	89.1	89	85.1	85	5	60-125/20
91-57-6	2-Methylnaphthalene	ND		100	90.9	91	84.6	85	7	58-125/20
88-74-4	2-Nitroaniline	ND		100	98.7	99	94.0	94	5	67-125/20
99-09-2	3-Nitroaniline	ND		100	85.0	85	76.0	76	11	53-125/20
100-01-6	4-Nitroaniline	ND		100	100	100	92.3	92	8	63-125/20
91-20-3	Naphthalene	ND		100	94.1	94	91.2	91	3	55-125/20
98-95-3	Nitrobenzene	ND		100	98.2	98	94.1	94	4	63-125/20
621-64-7	N-Nitroso-di-n-propylamine	ND		100	95.1	95	88.9	89	7	58-125/20
86-30-6	N-Nitrosodiphenylamine	ND		100	109	109	102	102	7	75-125/20
85-01-8	Phenanthrene	ND		100	99.0	99	93.1	93	6	75-125/20
129-00-0	Pyrene	ND		100	99.1	99	89.6	90	10	67-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
367-12-4	2-Fluorophenol	79%	74%	49%	44%	20-125%
4165-62-2	Phenol-d5	62%	61%	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	97%	89%	84%	82%	35-140%
4165-60-0	Nitrobenzene-d5	95%	88%	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	94%	87%	77%	73%	46-125%
1718-51-0	Terphenyl-d14	98%	90%	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW530-DFTPP	**Injection Date:**	04/25/02
Lab File ID:	W009577.D	**Injection Time:**	15:33
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	99158	47.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	70918	33.8		Pass
70	Less than 2.0% of mass 69	410	0.2	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	90603	43.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	209933	100.0		Pass
199	5.0 - 9.0% of mass 198	13726	6.5		Pass
275	10.0 - 30.0% of mass 198	45787	21.8		Pass
365	1.0 - 100.0% of mass 198	4120	2.0		Pass
441	Present, but less than mass 443	29685	14.1	(75.4) [b]	Pass
442	40.0 - 100.0% of mass 198	204309	97.3		Pass
443	17.0 - 23.0% of mass 442	39352	18.7	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW530-CC518	W009578.D	04/25/02	15:51	00:18	Continuing cal 50
OP4993-BS2	W009579.D	04/25/02	16:21	00:48	Blank Spike
OP4993-MB2	W009580.D	04/25/02	16:51	01:18	Method Blank
F12899-2	W009581.D	04/25/02	17:21	01:48	(used for QC only; not part of job F12878)
F12878-1	W009584.D	04/25/02	18:51	03:18	13GLM03S01
F12878-2	W009585.D	04/25/02	19:20	03:47	13GLM010S01
F12878-3	W009586.D	04/25/02	19:51	04:18	13GLM010I01
F12878-4	W009587.D	04/25/02	20:20	04:47	13RL041102
F12878-5	W009588.D	04/25/02	20:50	05:17	13GLM09I01
F12878-6	W009589.D	04/25/02	21:20	05:47	13GLM09S01
F12878-7	W009590.D	04/25/02	21:50	06:17	13GLM01S01D
F12878-8	W009591.D	04/25/02	22:20	06:47	13GLM16I01
F12878-9	W009592.D	04/25/02	22:49	07:16	13GLM16I01D
F12878-10	W009593.D	04/25/02	23:19	07:46	13GLM16D01
F12878-11	W009594.D	04/25/02	23:49	08:16	13GLM17S01
F12878-12	W009595.D	04/26/02	00:19	08:46	13GLM17I01
F12878-13	W009596.D	04/26/02	00:48	09:15	13GLM17D01
ZZZZZZ	W009597.D	04/26/02	01:18	09:45	(unrelated sample)
ZZZZZZ	W009598.D	04/26/02	01:48	10:15	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW530-DFTPP
Lab File ID: W009577.D
Instrument ID: GCMSW
Injection Date: 04/25/02
Injection Time: 15:33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009599.D	04/26/02	02:18	10:45	(unrelated sample)
OP4993-MB	W009600.D	04/26/02	02:48	11:15	Method Blank
ZZZZZZ	W009601.D	04/26/02	03:17	11:44	(unrelated sample)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042502A\W009578.D Vial: 2
Acq On : 25 Apr 2002 3:51 pm Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op5034,sw530,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	-0.02
2		1,4-Dioxane	0.445	0.473	-6.3	130	0.00
3		N-nitrosodimethylamine	0.558	0.493	11.6	120	-0.08
4		Pyridine	1.008	0.997	1.1	125	-0.07
5		Benzaldehyde	0.502	0.595	-18.5	139	-0.02
6		Aniline	1.505	1.508	-0.2	118	-0.02
7	S	2-Fluorophenol	1.207	1.215	-0.7	122	-0.03
8		bis(2-Chloroethyl)ether	1.266	1.297	-2.4	125	-0.02
9	S	Phenol-d5	1.457	1.442	1.0	121	-0.02
10	C	Phenol	1.599	1.595	0.3	120	-0.02
11		2-Chlorophenol	1.394	1.369	1.8	120	-0.02
12		1,3-Dichlorobenzene	1.523	1.520	0.2	125	-0.02
13	C	1,4-Dichlorobenzene	1.484	1.487	-0.2	123	-0.02
14		1,2-Dichlorobenzene	1.387	1.404	-1.2	122	-0.02
15		Benzyl alcohol	0.859	0.858	0.1	123	-0.02
16		bis(2-chloroisopropyl)ether	2.806	2.938	-4.7	126	-0.02
17		2-Methylphenol	1.143	1.139	0.3	125	-0.02
18		Acetophenone	1.539	1.479	3.9	119	-0.02
19		Hexachloroethane	0.548	0.543	0.9	120	-0.01
20	P	N-Nitroso-di-n-propylamine	0.792	0.757	4.4	119	-0.02
21		3&4-Methylphenol	1.094	1.060	3.1	120	-0.01
22	I	Naphthalene-d8	1.000	1.000	0.0	121	-0.01
23	S	Nitrobenzene-d5	0.369	0.369	0.0	122	-0.02
24		Nitrobenzene	0.351	0.354	-0.9	124	-0.02
25		Isophorone	0.640	0.633	1.1	122	-0.02
26	C	2-Nitrophenol	0.212	0.214	-0.9	124	-0.02
27		2,4-Dimethylphenol	0.344	0.341	0.9	121	-0.02
28		bis(2-Chloroethoxy)methane	0.388	0.382	1.5	118	-0.02
29		Benzoic Acid	0.247	0.261	-5.7	132	0.00
30	C	2,4-Dichlorophenol	0.304	0.309	-1.6	121	-0.02
31		1,2,4-Trichlorobenzene	0.306	0.309	-1.0	124	-0.02
32		Naphthalene	0.959	0.956	0.3	123	-0.02
33		4-Chloroaniline	0.350	0.356	-1.7	124	-0.01
34		2,6-Dichlorophenol	0.288	0.287	0.3	122	-0.01
35	C	Hexachlorobutadiene	0.179	0.175	2.2	119	-0.01
36		Caprolactam	0.194	0.203	-4.6	130	-0.03
37	C	4-Chloro-3-methylphenol	0.276	0.278	-0.7	124	-0.01
38		2-Methylnaphthalene	0.647	0.646	0.2	123	0.00
39		1-Methylnaphthalene	0.614	0.621	-1.1	126	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.275	0.275	0.0	122	-0.01
41	I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.02
42	P	Hexachlorocyclopentadiene	0.282	0.268	5.0	113	-0.03
43	C	2,4,6-Trichlorophenol	0.405	0.407	-0.5	127	-0.03

44		2,4,5-Trichlorophenol	0.423	0.423	0.0	121	-0.03
45	S	2-Fluorobiphenyl	1.362	1.359	0.2	124	-0.03
46		1,1'-Biphenyl	1.455	1.444	0.8	123	-0.03
47		2-Chloronaphthalene	1.182	1.186	-0.3	123	-0.03
48		2-Nitroaniline	0.357	0.363	-1.7	127	-0.03
49		Acenaphthylene	1.551	1.577	-1.7	128	-0.03
50		Dimethylphthalate	1.254	1.273	-1.5	128	-0.03
51		2,6-Dinitrotoluene	0.292	0.294	-0.7	126	-0.02
52	C	Acenaphthene	1.083	1.079	0.4	124	-0.03
53		3-Nitroaniline	0.319	0.334	-4.7	129	-0.02
54	P	2,4-Dinitrophenol	0.167	0.165	1.2	129	-0.02
55		Dibenzofuran	1.534	1.521	0.8	125	-0.02
56		2,4-Dinitrotoluene	0.348	0.349	-0.3	124	-0.02
57	P	4-Nitrophenol	0.142	0.138	2.8	119	-0.03
58		2,3,4,6-Tetrachlorophenol	0.281	0.280	0.4	121	-0.02
59		Fluorene	1.173	1.194	-1.8	126	-0.02
60		4-Chlorophenyl-phenylether	0.544	0.557	-2.4	127	-0.01
61		Diethylphthalate	1.121	1.123	-0.2	126	-0.02
62		4-Nitroaniline	0.281	0.303	-7.8	129	-0.03
63	I	Phenanthrene-d10	1.000	1.000	0.0	129	-0.02
64		4,6-Dinitro-2-methylphenol	0.174	0.169	2.9	126	-0.04
65	C	n-Nitrosodiphenylamine	0.622	0.624	-0.3	129	-0.03
66		1,2-Diphenylhydrazine	0.886	0.845	4.6	122	-0.04
67	S	2,4,6-Tribromophenol	0.104	0.102	1.9	124	-0.04
68		4-Bromophenyl-phenylether	0.213	0.207	2.8	122	-0.03
69		Hexachlorobenzene	0.213	0.207	2.8	125	-0.03
70		Atrazine	0.095	0.084	11.6	112	-0.02
71	C	Pentachlorophenol	0.131	0.121	7.6	109	-0.03
72		Phenanthrene	1.155	1.139	1.4	127	-0.03
73		Anthracene	1.146	1.115	2.7	124	-0.03
74		Carbazole	1.095	1.070	2.3	121	-0.02
75		Di-n-butylphthalate	1.238	1.205	2.7	119	0.00
76	C	Fluoranthene	1.088	1.054	3.1	119	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	120	-0.03
78		Benzidine	0.192	0.237	-23.4#	136	-0.04
79		Pyrene	1.874	1.851	1.2	123	-0.05
80	S	Terphenyl-d14	1.108	1.099	0.8	122	-0.04
81		Butylbenzylphthalate	0.761	0.769	-1.1	121	-0.02
82		3,3'-Dichlorobenzidine	0.346	0.373	-7.8	128	-0.03
83		Benzo[a]anthracene	1.303	1.315	-0.9	121	-0.03
84		Chrysene	1.276	1.290	-1.1	123	-0.04
85		bis(2-Ethylhexyl)phthalate	0.948	0.977	-3.1	123	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	119	-0.03
87	C	Di-n-octylphthalate	2.177	2.188	-0.5	119	-0.03
88		Benzo[b]fluoranthene	1.460	1.433	1.8	119	-0.04
89		Benzo[k]fluoranthene	1.498	1.454	2.9	117	-0.04
90	C	Benzo[a]pyrene	1.267	1.263	0.3	118	-0.03
91		Indeno[1,2,3-cd]pyrene	0.945	0.916	3.1	109	-0.03
92		Dibenz[a,h]anthracene	1.019	1.024	-0.5	115	-0.03
93		Benzo[g,h,i]perylene	1.028	1.004	2.3	115	-0.04

Average % D = 2.5

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009334.D 8270C.M Thu Apr 25 16:14:55 2002 MSBNA01

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MB2	W009580.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12878-1, F12878-2, F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	20-125%
4165-62-2	Phenol-d5	34%	10-125%
118-79-6	2,4,6-Tribromophenol	73%	35-140%
4165-60-0	Nitrobenzene-d5	71%	46-125%
321-60-8	2-Fluorobiphenyl	70%	46-125%
1718-51-0	Terphenyl-d14	71%	49-126%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042502A\W009580.D
Acq On : 25 Apr 2002 4:51 pm
Sample : op4993-mb2
Misc : op4993,sw530,1000,,,1,1,water
MS Integration Params: LSCINT.P
Quant Time: Apr 26 10:42 2002

Vial: 4
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

4/26/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.18	152	261751	40.00 ppm	-0.02
22) Naphthalene-d8	6.40	136	944140	40.00 ppm	-0.02
41) Acenaphthene-d10	8.76	164	466170	40.00 ppm	-0.02
63) Phenanthrene-d10	11.29	188	603552	40.00 ppm	-0.03
77) Chrysene-d12	16.22	240	411404	40.00 ppm	-0.04
86) Perylene-d12	18.73	264	263246	40.00 ppm	-0.03

System Monitoring Compounds					
7) 2-Fluorophenol	4.07	112	381391	48.29 ppm	-0.03
Spiked Amount 100.000	Range 20 - 125		Recovery = 48.29%		
9) Phenol-d5	4.87	99	325511	34.14 ppm	-0.03
Spiked Amount 100.000	Range 10 - 125		Recovery = 34.14%		
23) Nitrobenzene-d5	5.67	82	308784	35.42 ppm	-0.03
Spiked Amount 50.000	Range 46 - 125		Recovery = 70.84%		
45) 2-Fluorobiphenyl	7.75	172	554378	34.92 ppm	-0.03
Spiked Amount 50.000	Range 46 - 125		Recovery = 69.84%		
67) 2,4,6-Tribromophenol	10.06	330	114270	73.11 ppm	-0.05
Spiked Amount 100.000	Range 35 - 140		Recovery = 73.11%		
80) Terphenyl-d14	14.32	244	402855	35.34 ppm	-0.04
Spiked Amount 50.000	Range 49 - 126		Recovery = 70.68%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042502A\W009579.D
Acq On : 25 Apr 2002 4:21 pm
Sample : op4993-bs2
Misc : op4993,sw530,1000,,,1,1,water
MS Integration Params: LSCINT.P
Quant Time: Apr 26 10:41 2002

Vial: 3
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

4/26/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.18	152	256527	40.00 ppm	-0.02
22) Naphthalene-d8	6.40	136	915716	40.00 ppm	-0.02
41) Acenaphthene-d10	8.76	164	440962	40.00 ppm	-0.02
63) Phenanthrene-d10	11.29	188	569383	40.00 ppm	-0.02
77) Chrysene-d12	16.23	240	344512	40.00 ppm	-0.03
86) Perylene-d12	18.73	264	232014	40.00 ppm	-0.03

System Monitoring Compounds					
7) 2-Fluorophenol	4.07	112	426181	55.06 ppm	-0.03
Spiked Amount 100.000	Range 20 - 125		Recovery = 55.06%		
9) Phenol-d5	4.88	99	363839	38.94 ppm	-0.03
Spiked Amount 100.000	Range 10 - 125		Recovery = 38.94%		
23) Nitrobenzene-d5	5.68	82	330327	39.07 ppm	-0.02
Spiked Amount 50.000	Range 46 - 125		Recovery = 78.14%		
45) 2-Fluorobiphenyl	7.75	172	629903	41.94 ppm	-0.03
Spiked Amount 50.000	Range 46 - 125		Recovery = 83.88%		
67) 2,4,6-Tribromophenol	10.08	330	139219	94.42 ppm	-0.04
Spiked Amount 100.000	Range 35 - 140		Recovery = 94.42%		
80) Terphenyl-d14	14.32	244	471807	49.43 ppm	-0.04
Spiked Amount 50.000	Range 49 - 126		Recovery = 98.86%		

Target Compounds						Qvalue
3) N-nitrosodimethylamine	2.51	42	60032	26.42 ppm		93
4) Pyridine	2.53	79	121498m	18.79 ppm		
6) Aniline	4.90	93	437907	45.37 ppm		83
8) bis(2-Chloroethyl)ether	4.95	93	322510	39.71 ppm		95
10) Phenol	4.89	94	219491	21.41 ppm		93
11) 2-Chlorophenol	5.00	128	330535	36.98 ppm		98
12) 1,3-Dichlorobenzene	5.13	146	367711	37.66 ppm		99
13) 1,4-Dichlorobenzene	5.19	146	368304	38.71 ppm		98
14) 1,2-Dichlorobenzene	5.33	146	355547	39.98 ppm		98
15) Benzyl alcohol	5.30	108	194647	35.35 ppm		97
16) bis(2-chloroisopropyl)ethe	5.41	45	771560	42.88 ppm		95
17) 2-Methylphenol	5.40	108	265080	36.15 ppm		94
19) Hexachloroethane	5.63	117	133810	38.10 ppm		95
20) N-Nitroso-di-n-propylamine	5.53	70	215476	42.45 ppm		93
21) 3&4-Methylphenol	5.53	108	476143	67.87 ppm	#	69
24) Nitrobenzene	5.69	77	329700	41.07 ppm		99
25) Isophorone	5.92	82	612039	41.75 ppm		97
26) 2-Nitrophenol	6.00	139	190363	39.28 ppm		98
27) 2,4-Dimethylphenol	6.04	107	262048	33.27 ppm		95
28) bis(2-Chloroethoxy)methane	6.13	93	358443	40.38 ppm		99

(#) = qualifier out of range (m) = manual integration

0485

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042502A\W009579.D
Acq On : 25 Apr 2002 4:21 pm
Sample : op4993-bs2
Misc : op4993,sw530,1000,,,1,1,water
MS Integration Params: LSCINT.P
Quant Time: Apr 26 10:41 2002

Vial: 3
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) Benzoic Acid	6.10	105	26922	4.75	ppm		97
30) 2,4-Dichlorophenol	6.25	162	275520	39.63	ppm		98
31) 1,2,4-Trichlorobenzene	6.34	180	278448	39.69	ppm		100
32) Naphthalene	6.43	128	895932	40.79	ppm		99
33) 4-Chloroaniline	6.48	127	356610	44.55	ppm		96
35) Hexachlorobutadiene	6.55	225	141091	34.51	ppm		99
37) 4-Chloro-3-methylphenol	7.05	107	266969	42.27	ppm		99
38) 2-Methylnaphthalene	7.25	142	574866	38.79	ppm		99
39) 1-Methylnaphthalene	7.38	142	557090	39.63	ppm		99
42) Hexachlorocyclopentadiene	7.45	237	102250	32.92	ppm		99
43) 2,4,6-Trichlorophenol	7.63	196	189848	42.55	ppm		100
44) 2,4,5-Trichlorophenol	7.68	196	204656	43.89	ppm		98
47) 2-Chloronaphthalene	7.92	162	572628	43.94	ppm		98
48) 2-Nitroaniline	8.08	65	188506	47.95	ppm		98
49) Acenaphthylene	8.54	152	863140	50.48	ppm		99
50) Dimethylphthalate	8.37	163	674871	48.80	ppm		99
51) 2,6-Dinitrotoluene	8.46	165	163248	50.67	ppm		92
52) Acenaphthene	8.81	153	534842	44.80	ppm		99
53) 3-Nitroaniline	8.71	138	160966	45.74	ppm		97
54) 2,4-Dinitrophenol	8.89	184	71384	42.92	ppm	#	95
55) Dibenzofuran	9.09	168	753892	44.58	ppm		94
56) 2,4-Dinitrotoluene	9.10	165	201415	52.49	ppm		93
57) 4-Nitrophenol	9.02	109	36631	23.42	ppm	#	77
58) 2,3,4,6-Tetrachlorophenol	9.30	232	145244	46.96	ppm		97
59) Fluorene	9.66	166	640172	49.49	ppm		96
60) 4-Chlorophenyl-phenylether	9.69	204	288762	48.11	ppm		99
61) Diethylphthalate	9.53	149	621549	50.31	ppm		99
62) 4-Nitroaniline	9.73	138	170807	55.18	ppm		97
64) 4,6-Dinitro-2-methylphenol	9.79	198	116749	47.06	ppm		85
65) n-Nitrosodiphenylamine	9.89	169	465605	52.57	ppm		100
66) 1,2-Diphenylhydrazine	9.96	77	582507	46.21	ppm		100
68) 4-Bromophenyl-phenylether	10.53	248	144903	47.72	ppm		96
69) Hexachlorobenzene	10.60	284	144648	47.60	ppm		89
71) Pentachlorophenol	10.97	266	76527	40.90	ppm		98
72) Phenanthrene	11.34	178	794832	48.36	ppm		100
73) Anthracene	11.43	178	845089	51.80	ppm		100
74) Carbazole	11.75	167	787181	50.48	ppm		99
75) Di-n-butylphthalate	12.51	149	892670	50.66	ppm		99
76) Fluoranthene	13.53	202	793538	51.25	ppm		98
79) Pyrene	13.93	202	771949	47.82	ppm		99
81) Butylbenzylphthalate	15.33	149	328384	50.09	ppm		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042502A\W009579.D
Acq On : 25 Apr 2002 4:21 pm
Sample : op4993-bs2
Misc : op4993,sw530,1000,,,1,1,water
MS Integration Params: LSCINT.P
Quant Time: Apr 26 10:41 2002

Vial: 3
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) 3,3'-Dichlorobenzidine	16.23	252	159553	53.48 ppm	98
83) Benzo[a]anthracene	16.21	228	569352	50.72 ppm	100
84) Chrysene	16.28	228	544171	49.53 ppm	99
85) bis(2-Ethylhexyl)phthalate	16.49	149	429634	52.64 ppm	98
87) Di-n-octylphthalate	17.68	149	662463	52.46 ppm	98
88) Benzo[b]fluoranthene	18.11	252	434993	51.36 ppm	97
89) Benzo[k]fluoranthene	18.17	252	434350	49.98 ppm	100
90) Benzo[a]pyrene	18.64	252	393545	53.53 ppm	98
91) Indeno[1,2,3-cd]pyrene	20.31	276	282789	51.60 ppm	98
92) Dibenz[a,h]anthracene	20.35	278	305580	51.69 ppm	97
93) Benzo[g,h,i]perylene	20.67	276	319210	53.55 ppm	98

(#) = qualifier out of range (m) = manual integration

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT Panama City CTO-184		JOB NUMBER Job-2834 SDG-F12878	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY 5-21-02	DATE 21-May-02

Sample 13GLM01S01D

Naphthalene = 22.3 ug/L

$$\left(\frac{(365919)(40\,ug/L)}{(683077)(\text{Naphthalene})}\right) = \cancel{0.959}$$

RRF 0.959

Naphthalene = 22.34 — OK

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009534.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009590.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	22.3	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	15.3	5.0	ug/l	
91-57-6	2-Methylnaphthalene	19.1	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	22.3	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%	53%	20-125%
4165-62-2	Phenol-d5	27%	35%	10-125%
118-79-6	2,4,6-Tribromophenol	92%	98%	35-140%
4165-60-0	Nitrobenzene-d5	86%	92%	46-125%
321-60-8	2-Fluorobiphenyl	84%	93%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042302\W009534.D
Acq On : 23 Apr 2002 5:24 pm
Sample : f12878-7
Misc : op4993,sw527,990,,,1,1,water
MS Integration Params: LSCINT.P
Quant Time: Apr 24 12:48 2002

Vial: 16
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

4/24/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.19	152	208193	40.00	ppm	0.00
22) Naphthalene-d8	6.42	136	683077	40.00	ppm	0.00
41) Acenaphthene-d10	8.78	164	302708	40.00	ppm	0.00
63) Phenanthrene-d10	11.32	188	358078	40.00	ppm	0.00
77) Chrysene-d12	16.26	240	241373	40.00	ppm	0.00
86) Perylene-d12	18.76	264	175200	40.00	ppm	0.00
System Monitoring Compounds						
7) 2-Fluorophenol	4.08	112	272979	43.46	ppm	-0.02
Spiked Amount 100.000	Range 20 - 125		Recovery = 43.46%			
9) Phenol-d5	4.89	99	204630	26.99	ppm	-0.01
Spiked Amount 100.000	Range 10 - 125		Recovery = 26.99%			
23) Nitrobenzene-d5	5.69	82	271976	43.12	ppm	-0.01
Spiked Amount 50.000	Range 46 - 125		Recovery = 86.24%			
45) 2-Fluorobiphenyl	7.77	172	431566	41.86	ppm	0.00
Spiked Amount 50.000	Range 46 - 125		Recovery = 83.72%			
67) 2,4,6-Tribromophenol	10.11	330	85116	91.79	ppm	0.00
Spiked Amount 100.000	Range 35 - 140		Recovery = 91.79%			
80) Terphenyl-d14	14.35	244	258709	38.68	ppm	-0.01
Spiked Amount 50.000	Range 49 - 126		Recovery = 77.36%			

Target Compounds						Qvalue
21) 3&4-Methylphenol	5.56	108	126844	22.28	ppm #	71
32) Naphthalene	6.44	128	365919	22.33	ppm	98
38) 2-Methylnaphthalene	7.27	142	211289	19.11	ppm	98
39) 1-Methylnaphthalene	7.40	142	160113	15.27	ppm	98

0400

(#) = qualifier out of range (m) = manual integration

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D
Acq On : 23 Apr 2002 10:22 am
Sample : cc518-50
Misc : op4979,sw527,1000,,,1,1,water
MS Integration Params: LSCINT.P

Vial: 2
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/24/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00

44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009334.D 8270C.M Tue Apr 23 10:45:48 2002 MSBNA01

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Initial Calibration

Calibration Files
1 =XY008336.D 2 =XY008337.D 3 =XY008338.D
4 =XY008339.D 5 =XY008340.D 6 =XY008341.D 7 =XY008342.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane		1.066	0.864	0.983	0.953	0.878	0.989	0.955 E4	7.88
2) Ethylene		1.938	1.681	1.912	1.848	1.682	1.876	1.823 E4	6.23
3) Ethane		1.938	1.992	1.885	1.832	1.706	1.905	1.876 E4	5.28

Average % RSD = 6.5

(#) = Out of Range

DGMEE.M Tue Apr 16 09:14:01 2002 QRXY

RSD < 30%
BRM
04.16.02

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041202\XY008343.D
Acq On : 12 Apr 2002 1:30 pm
Sample : ICV-1000
Misc : gc1758,gxy114,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	707.356	29.3	71	-0.07
2	Ethylene	1000.000	768.401	23.2	76	-0.08
3	Ethane	1000.000	714.662	28.5	73	-0.07

Average % D = 26.986

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sequence Name: C:\HPCHEM\2\SEQUENCE\041202.S
Comment:
Operator: RachidA
Data Path: C:\HPCHEM\2\DATA\041202\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Calibration	100	XY008336	DGMEE	IC114-1.5
2	Calibration	100	XY008337	DGMEE	IC114-15
3	Calibration	100	XY008338	DGMEE	ICC114-100
4	Calibration	100	XY008339	DGMEE	IC114-500
5	Calibration	100	XY008340	DGMEE	IC114-1000
6	Calibration	100	XY008341	DGMEE	IC114-5000
7	Calibration	100	XY008342	DGMEE	IC114-10000
8	Spike	100	XY008343	DGMEE	ICV-1000
9	Spike	100	XY008344	DGMEE	BS
10	Blank	100	XY008345	DGMEE	MB
11	Blank	100	XY008346	DGMEE	Helium
12	Sample	100	XY008347	DGMEE	F12863-7
13	Sample	100	XY008348	DGMEE	F12863-8
14	Duplicate	100	XY008349	DGMEE	F12863-7DUP
15	Sample	100	XY008350	DGMEE	F12863-9
16	Sample	100	XY008351	DGMEE	F12863-10
17	DailyCal	100	XY008352	DGMEE	ECC114-1000ppmv
18					

C752

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY117-MB	XY008395.D	1	04/18/02	RA	n/a	n/a	GXY117

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-1, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Sequence Name: C:\HPCHEM\2\SEQUENCE\041802.S
Comment:
Operator: RachidA
Data Path: C:\HPCHEM\2\DATA\041802\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DailyCal	100	XY008393	DGMEE	CC114-500ppmv 927
2	Spike	100	XY008394	DGMEE	Helium
3	Blank	100	XY008395	DGMEE	MB
4	Spike	100	XY008396	DGMEE	BS
5	Sample	100	XY008397	DGMEE	F12900-3
6	Sample	100	XY008398	DGMEE	F12900-4
7	Sample	100	XY008399	DGMEE	F12878-1
8	Sample	100	XY008400	DGMEE	F12863-19
9	Sample	100	XY008401	DGMEE	F12878-2
10	Sample	100	XY008402	DGMEE	F12878-3
11	Sample	100	XY008403	DGMEE	F12878-5
12	Sample	100	XY008404	DGMEE	F12878-6
13	Sample	100	XY008405	DGMEE	F12878-7
14	Duplicate	100	XY008406	DGMEE	F12878-1DUP
15	DailyCal	100	XY008407	DGMEE	CC114-1000ppmv 229
16	Spike	100	XY008408	DGMEE	F12863-18spiked
17	Sample	100	XY008409	DGMEE	F12878-8
18	Sample	100	XY008410	DGMEE	F12878-6
19	Sample	100	XY008411	DGMEE	F12878-2
20	Sample	100	XY008412	DGMEE	F12878-7
21	DailyCal	100	XY008413	DGMEE	ECC114-5000ppmv
22	DailyCal	100	XY008414	DGMEE	ECC114-1000ppmv

0728

Last Modified: Sat Apr 20 14:51:50 2002

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041802\XY008393.D
Acq On : 18 Apr 2002 9:27 am
Sample : CC114-500ppmv
Misc : gc1707,gxy117,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	538.523	-7.7	105	-0.04
2	Ethylene	500.000	550.415	-10.1	105	-0.04
3	Ethane	500.000	534.486	-6.9	106	-0.05

Average % D = 8.2

(#) = Out of Range
XY008339.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Fri Apr 19 08:52:41 2002 QRXY

Continuing Calibration Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: GXY117-CC114
Lab FileID: XY008407.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041802\XY008407.D Vial: 2
Acq On : 18 Apr 2002 2:39 pm Operator: RachidA
Sample : CC114-1000ppmv Inst : VOA5
Misc : gc1765,gxy117,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	1078.459	-7.8	108	-0.07
2	Ethylene	1000.000	1098.043	-9.8	108	-0.06
3	Ethane	1000.000	1060.243	-6.0	109	-0.06

Average % D = 7.9

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008340.D DGMEE.M Fri Apr 19 08:53:01 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\041802\XY008413.D
Acq On : 18 Apr 2002 4:38 pm
Sample : ECC114-5000ppmv
Misc : gc1765,gxy117,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	5000.000	3760.102	24.8	82	-0.03
2	Ethylene	5000.000	3883.057	22.3	84	-0.10
3	Ethane	5000.000	3863.681	22.7	85	-0.11

Average % D = 23.3

(#) = Out of Range
XY008341.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Fri Apr 19 08:53:23 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042302\XY008444.D Vial: 100
Acq On : 23 Apr 2002 8:29 am Operator: RachidA
Sample : CC119-500ppmv Inst : VOA5
Misc : gc1765,gxy118,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	515.537	-3.1	106	-0.03
2	Ethylene	500.000	533.665	-6.7	107	-0.04
3	Ethane	500.000	537.292	-7.5	108	-0.04

Average % D = 5.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008436.D DGMEE.M Wed Apr 24 14:05:39 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042302\XY008457.D
Acq On : 23 Apr 2002 3:09 pm
Sample : CC119-1000ppmv
Misc : gc1765,gxy120,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	981.357	1.9	100	-0.10
2	Ethylene	1000.000	1019.728	-2.0	102	-0.10
3	Ethane	1000.000	1016.480	-1.6	101	-0.08

Average % D = 1.8

(#) = Out of Range
XY008437.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Wed Apr 24 14:05:17 2002 QRXY

Method Blank Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY120-MB	XY008448.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY117-BS	XY008396.D	1	04/18/02	RA	n/a	n/a	GXY117

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-1, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.4	95	50-150
74-84-0	Ethane	22	20.0	91	50-150
74-85-1	Ethene	29	27.6	95	50-150

Blank Spike Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY120-BS	XY008447.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.4	95	50-150
74-84-0	Ethane	22	21.5	98	50-150
74-85-1	Ethene	29	28.8	99	50-150

Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12878-1DUP	XY008406.D	1	04/18/02	RA	n/a	n/a	GXY117
F12878-1	XY008399.D	1	04/18/02	RA	n/a	n/a	GXY117

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-1, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8

CAS No.	Compound	F12878-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	623		573		8	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

Duplicate Summary

Job Number: F12878
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12899-2DUP	XY008450.D	1	04/23/02	RA	n/a	n/a	GXY120
F12899-2	XY008449.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

CAS No.	Compound	F12899-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	ND		ND		nc	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT Panama City CTO-184		JOB NUMBER Job-2834 SDG-F12878	
SUBJECT Sample Calculation			
BASED ON		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY	DATE 21-May-02

Sample 13GLM010501 Methane = 2300

$$\frac{40541724}{0.955 \times 10^4} = 4245 \text{ ppmv}$$

$$4245 \left(\frac{16}{24.37}\right) = 2787 \text{ headspace conc.} \left(\frac{5}{38}\right) = 366.7(5)$$

$= 1833.7$ water conc.

$$\frac{(4245)(16)(55.5)}{40560} = 92.94(5) = 464.7 \text{ Saturation}$$

$1833.7 + 464.7 = 2298.4$ — OK

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008401.D	1	04/18/02	RA	n/a	n/a	GXY117
Run #2	XY008411.D	5	04/18/02	RA	n/a	n/a	GXY117

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2300 [a]	2.5	ug/l	
74-84-0	Ethane	11.9	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Dissolved Gases Calculation Worksheet

Data File Name **xy008411.d**
Date Acquired **04/18/20 -1:4:**
Sample Name **F12878-2**
Sample Multiplier **5**
Temperature (C) 24
Headspace (cc) 5
Sample Volume (mL) 38

Name	MW	Molar Volume (L)	Water (g-moles/L)	Temp (K)	Corrected Gas density	Peak Area	Helium Blank	Blank Corrected Result (ppmV)	Dilution Adjusted Result (ppmV)	Water (ug/L)	Henry's Constant	Saturation (ug/L)	Total (ug/L)
Methane	16	22.4	55.5	297	24.37	40541724	0	4243.43	21217.16	1832.96	40560	464.52	**2297.47**
Ethylene	28	22.4	55.5	297	24.37	0		0.00	0.00	0.00	11160	0.00	0.00
Ethane	30	22.4	55.5	297	24.37	0		0.00	0.00	0.00	29420	0.00	0.00

Definitions

Molar Volume (L)	The volume of 1 mole of a gas at standard temperature and pressure (STP).
Water g/Moles	One liter of water is equal to 55.5g-moles.
Corrected Gas Density	Gas density corrected for temperature is equal to (molar volume) x (temp-k/273)
Headspace Concentration	Is equal to (ppmv reading) x (mw/corrected gas density).
Water Concentration	Is equal to headspace concentration (ug/L) x headspace volume / sample volume.
Saturation Concentration	Gas which remains at equilibrium in the sample is equal to (headspace conc-ppm) x (mw) x 55.5/Henry's Constant.

Henry's Constants

	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43460	44180	44900
Ethylene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200

C615

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\041802\XY008411.D Vial: 100
Acq On : 18 Apr 2002 4:03 pm Operator: RachidA
Sample : F12878-2 Inst : VOA5
Misc : gc1765,gxy117,,,,,5 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Apr 18 16:14 2002 Quant Results File: DGMEE.RES

Quant Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Fri Apr 12 13:05:31 2002
Response via : Initial Calibration
DataAcq Meth : DGMEE.M

Volume Inj. : manual
Signal Phase : Carboxen-1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	1.44	40541724	4243.432	ppmv
2)	Ethylene	0.00	0	N.D.	ppmv
3)	Ethane	0.00	0	N.D.	ppmv

0614

(f)=RT Delta > 1/2 Window (m)=manual int.

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Thu Feb 28 12:49:18 2002
Response via : Initial Calibration

Calibration Files
1 =XY008336.D 2 =XY008337.D 3 =XY008338.D
4 =XY008339.D 5 =XY008340.D 6 =XY008341.D 7 =XY008342.D

	Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	Methane		1.066	0.864	0.983	0.953	0.878	0.989	0.955 E4	7.88
2)	Ethylene		1.938	1.681	1.912	1.848	1.682	1.876	1.823 E4	6.23
3)	Ethane		1.938	1.992	1.885	1.832	1.706	1.905	1.876 E4	5.28

Average % RSD = 6.5

(#) = Out of Range

DGMEE.M Tue Apr 16 09:14:01 2002 QRXY

RSD < 30%
8.5%
04.16.02

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. G. WALKER**	**DATE:**	**MAY 23, 2002**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SELECT METALS AND MISCELLANEOUS PARAMETERS**
CTO 184, CSS PANAMA CITY
SDG F12878

SAMPLES: 13/Aqueous

13GLM03S01	13GLM010S01	13GLM010I01	13RL041102
13GLM09I01	13GLM09S01	13GLM010S01D	13GLM16I01
13GLM16I01D	13GLM16D01	13GLM17S01	13GLM17I01
13GLM17D01			

OVERVIEW

The sámple set for CTO 184 CSS Panama, SDG F12878 consists of, one (1) rinsate blank, two (2) field duplicates, and ten (10) aqueous environmental samples. The samples were analyzed for arsenic calcium, magnesium, manganese, potassium, sodium, chloride, sulfate, total organic carbon (TOC), nitrite, and nitrate. Two (2) field duplicate pairs were included in this SDG: 13GLM16I01 / 13GLM16I01D and 13GLM010S01 / 13GLM010S01D.

The samples were collected by TetraTech NUS on April 11, 2002 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metals analyses, were conducted using the SW-846 Method 6010B analytical and reporting protocols. Chloride, sulfate, nitrite, and nitrate analyses were conducted using the SW-846 Method 9056. TOC analyses were conducted using EPA Method 415.1. The data contained in this SDG were validated with regard to the following parameters:

*	•	Data Completeness
*	•	Holding Times
*	•	Calibration Recoveries
	•	Laboratory Blank Analyses
*	•	Laboratory Control Sample Results
*	•	ICP Interference Check Sample Results
*	•	Matrix Spike Recoveries
*	•	ICP Serial Dilution Results
*	•	Laboratory Duplicate Results
*	•	Field Duplicate Results
*	•	Sample Quantitation
*	•	Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following

maximum concentrations:

Samples affected: All samples

Analyte	Maximum Concentration	Action Level
Arsenic	2.7 ug/L	13.5 ug/L
Calcium	14.7 ug/L	73.5 ug/L
Magnesium	15.0 ug/L	75.0 ug/L
Potassium	678 ug/L	3,390 ug/L
Sodium	476 ug/L	2,380 ug/L

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the action level reported for arsenic, potassium, and sodium were qualified "U" as a result of laboratory blank contamination.

Notes:

The ICP Serial Dilution percent difference (%D) for potassium in QC batch MP4344 was >10% quality control limit. The serial dilution was not performed on a Tetra Tech sample and therefore no qualification of the data was necessary.

The ICP Serial Dilution percent difference (%D) for manganese and sodium in QC batch MP4347 was >10% quality control limit. The serial dilution was not performed on a Tetra Tech sample and therefore no qualification of the data was necessary.

Sample 13GLM010S01D was shipped to the laboratory but not listed on the C.O.C. to be analyzed. The laboratory incorrectly logged the sample in as 13GLM01S01D. The sample has been transcribed correctly in the database.

The electronic data deliverable (EDD) and Form I laboratory reporting limits were not in agreement. The data reviewer amended the EDD.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several analytes were detected in the laboratory method/preparation blanks. EDD and Form I reporting limits were not in agreement.

Other factors affecting data quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review" (02/94) and the NFESC guidelines "Navy IRCDQM" (09/99).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Edward Sedlmyer
Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: M

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	10700		
MAGNESIUM	853		
MANGANESE	11.0		
POTASSIUM	2460	U	A
SODIUM	4260		

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	3.7	U	A
CALCIUM	27700		
MAGNESIUM	1060		
MANGANESE	15.6		
POTASSIUM	1750	U	A
SODIUM	2470		

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	26600		
MAGNESIUM	1030		
MANGANESE	14.6		
POTASSIUM	1690	U	A
SODIUM	2520		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: M

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	4.8	U	A
CALCIUM	7640		
MAGNESIUM	480		
MANGANESE	5.4		
POTASSIUM	1110	U	A
SODIUM	2100	U	A

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	3940		
MAGNESIUM	3620		
MANGANESE	2.6		
POTASSIUM	2750	U	A
SODIUM	3150		

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	4.8	U	A
CALCIUM	16000		
MAGNESIUM	729		
MANGANESE	8.8		
POTASSIUM	1710	U	A
SODIUM	3780		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: M

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	31800		
MAGNESIUM	1350		
MANGANESE	11.9		
POTASSIUM	1020	U	A
SODIUM	4980		

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	4.4	U	A
CALCIUM	25000		
MAGNESIUM	1650		
MANGANESE	7.9		
POTASSIUM	1650	U	A
SODIUM	5660		

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	23200		
MAGNESIUM	1510		
MANGANESE	6.9		
POTASSIUM	1540	U	A
SODIUM	4550		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: M

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	6.6	U	A
CALCIUM	660		
MAGNESIUM	1260		
MANGANESE	10.5		
POTASSIUM	2850	U	A
SODIUM	4290		

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	5.6	U	A
CALCIUM	995		
MAGNESIUM	1330		
MANGANESE	25.3		
POTASSIUM	3020	U	A
SODIUM	4050		

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	8.9	U	A
CALCIUM	13400		
MAGNESIUM	1050		
MANGANESE	13.7		
POTASSIUM	2180	U	A
SODIUM	3520		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: M

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	3.8		
CALCIUM	16.3		
MAGNESIUM	12.0		
MANGANESE	0.16	U	
POTASSIUM	665		
SODIUM	866		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	1.6		
NITRITE	0.10	U	
SULFATE	21		
TOTAL ORGANIC CARBON	8.6		

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	57.2		

nsample	13GLM010S01D
samp_date	4/11/02
lab_id	F12878-7
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	68		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	46.8		

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	27.7		
TOTAL ORGANIC CARBON	5.4		

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.27		
NITRITE	0.10	U	
SULFATE	22.9		
TOTAL ORGANIC CARBON	14		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	9.8		

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.12		
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	10		

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	11.4		

PROJ_NO: 2834

SDG: F12878 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	8.4		

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	9.6		

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	U	
SULFATE	20	U	
TOTAL ORGANIC CARBON	12		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	10700	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	853 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	11.0 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2460 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4260 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.7 B	10	2.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Calcium	27700	1000	3.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Magnesium	1060 B	5000	9.9	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Manganese	15.6	15	0.16	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Potassium	1750 B	5000	14	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Sodium	2470 B	5000	150	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	26600	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1030 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	14.6 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1690 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	2520 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.8 B	10	2.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Calcium	7640	1000	3.8	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Magnesium	480 B	5000	9.9	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Manganese	5.4 B	15	0.16	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Potassium	1110 B	5000	14	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A
Sodium	2100 B	5000	150	ug/l	1	04/17/02	04/18/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	3940	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	3620 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	2.6 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2750 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	3150 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.8 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	16000	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	729 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	8.8 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1710 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	3780 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	31800	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1350 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	11.9 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1020 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4980 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	4.4 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	25000	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1650 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	7.9 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1650 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	5660	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	23200	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1510 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	6.9 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	1540 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4550 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.6 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	660 B	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1260 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	10.5 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2850 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4290 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but ≤ RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.6 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	995 B	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1330 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	25.3	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	3020 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	4050 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	8.9 B	10	2.8	ug/l	1	04/18/02	04/23/02	DM	SW846 6010B	SW846 3010A
Calcium	13400	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	1050 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	13.7 B	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	2180 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	3520 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	3.8 B	10	2.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Calcium	16.3 B	1000	3.8	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Magnesium	12.0 B	5000	9.9	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Manganese	0.16 U	15	0.16	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Potassium	665 B	5000	14	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A
Sodium	866 B	5000	150	ug/l	1	04/18/02	04/19/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	1.6	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	21.0	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.6	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	57.2	5.0	mg/l	5	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM01S01D		
Lab Sample ID:	F12878-7	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	68.0	5.0	mg/l	5	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	46.8	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	27.7	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.4	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.27	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	22.9	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	14.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	9.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.12	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	10.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	11.4	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.4	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	9.6	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/12/02	LL	EPA 300/SW846 9056
Total Organic Carbon	12.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

APPENDIX C

SUPPORT DOCUMENTATION

Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D	=	MS/MSD Noncompliance
E	=	LCS/LCSD Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	GFAA PDS - GFAA MSA's $r < 0.995$
K	=	ICP Interference - include ICSAB % R's
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	Pest/PCD% between columns for positive results
V	=	Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is less than sample activity

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834, CTO-0184, WR# PC184-2
Report Date: May 10, 2002
Job Number: F12878

13 samples were collected on April 11, 2002, and received on April 12, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOC, SW846-8260B:

- The MS/MSD associated with analytical batch number VB399 had several recoveries below acceptance limits. All RPD were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number VB400 had several recoveries above and/or below acceptance limits. All RPD were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

SVOC, SW846-8270C:

- The Blank Spike associated with analytical batch number SW527 had several recoveries below acceptance limits. The Blank Spike was reanalyzed under batch SW528, with similar results. All associated samples were re-extracted outside of holding time to confirm results. The re-extracted Blank Spike was within acceptance limits and all sample results confirmed. Only the original analysis, extracted within hold, has been reported. All samples have been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch number MP4344 and MP4347 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number MP4347 had one RPD above acceptance limits. This high RPD was acceptable due to low duplicate and sample concentrations. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	TCL VOA	TCLSVOC	Metals	Dissolved Gases	TOC	Cl, SO4, NO2, NO3	LAB USE ONLY
1)	13GLM03S01	4-11-02	1215	JB	GW	11	X	X			X	3	2	1	3	1	1	
2)	13GLM010S01		1450			11	X	X			X	3	2	1	3	1	1	
3)	13GLM010I01		1520			11	X	X			X	3	2	1	3	1	1	
4)	13RL041102		1210			6	X	X			X	3	2	1	Ø	Ø	Ø	
5)	13GLM09I01		1030			11	X	X			X	3	2	1	3	1	1	
6)	13GLM09S01		0945			11	X	X			X	3	2	1	3	1	1	
7)	missing ASBD																	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Airbill # 8311-5257-8681

1/2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	1700 4/11/02	1.	2.		2. 04/12/02-0750
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE ☐ TEMPERATURE

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878
ACCUTEST QUOTE #: CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC 1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC's (8260B)	TCL SVOC's/PAH's (8270C)	Select Metals C	Anions (NO2, NO3, SO4, Cl)	TOC	Dissolved Gases	LAB USE ONLY
8)	13GLM16I01	4/11/02	08:55	TAA	GW	11	7		1		3	3	2	1	1	1	3	
9)	13GLM16I01D		08:55															
10)	13GLM16D01		09:50															
11)	13GLM17S01		11:35															
12)	13GLM17I01		14:55															
13)	13GLM17D01		12:40															

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

Airbill # 831152528681

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. TAA	4/11/02 18:06	1.	2.		2. 2/2 04/12/02
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐

Accutest Laboratories

Sample Summary

Tetra-Tech, NUS

Job No: F12878

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC184-2

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12878-1	04/11/02	12:15 JB	04/12/02	AQ	Ground Water	13GLM03S01
F12878-2	04/11/02	14:50 JB	04/12/02	AQ	Ground Water	13GLM010S01
F12878-3	04/11/02	15:20 JB	04/12/02	AQ	Ground Water	13GLM010I01
F12878-4	04/11/02	12:10 JB	04/12/02	AQ	Ground Water	13RL041102
F12878-5	04/11/02	10:30 JB	04/12/02	AQ	Ground Water	13GLM09I01
F12878-6	04/11/02	09:45 JB	04/12/02	AQ	Ground Water	13GLM09S01
F12878-7	04/11/02	12:15 JB	04/12/02	AQ	Ground Water	13GLM01S01D
F12878-8	04/11/02	08:55 JB	04/12/02	AQ	Ground Water	13GLM16I01
F12878-9	04/11/02	08:55 JB	04/12/02	AQ	Ground Water	13GLM16I01D
F12878-10	04/11/02	09:50 JB	04/12/02	AQ	Ground Water	13GLM16D01
F12878-11	04/11/02	11:35 JB	04/12/02	AQ	Ground Water	13GLM17S01
F12878-12	04/11/02	14:55 JB	04/12/02	AQ	Ground Water	13GLM17I01
F12878-13	04/11/02	12:40 JB	04/12/02	AQ	Ground Water	13GLM17D01

F12878

HOLDING TIME
05/16/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	CL	04/11/02	04/12/02	04/12/02	1	0	1
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
%	13GLM03S01	F12878-1DUP	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	ETHA	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	ETHA	04/11/02	/ /	04/23/02	0	0	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
%	13GLM03S01	F12878-1DUP	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	ETHE	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	ETHE	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	M	04/11/02	04/17/02	04/18/02	6	1	7
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM03S01	F12878-1	NORMAL	F12878	M	04/11/02	04/17/02	04/18/02	6	1	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13RL041102	F12878-4	NORMAL	F12878	M	04/11/02	04/18/02	04/19/02	7	1	8
UG/L	13GLM010I01	F12878-3	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM01S01D	F12878-7	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
%	13GLM03S01	F12878-1DUP	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09I01	F12878-5	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM09S01	F12878-6	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16D01	F12878-10	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM16I01	F12878-8	NORMAL	F12878	METH	04/11/02	/ /	04/18/02	0	0	7
UG/L	13GLM16I01D	F12878-9	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17D01	F12878-13	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17I01	F12878-12	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
UG/L	13GLM17S01	F12878-11	NORMAL	F12878	METH	04/11/02	/ /	04/23/02	0	0	12
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	NTA	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	NTI	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM010I01	F12878-3	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
UG/L	13GLM010S01	F12878-2	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM01S01D	F12878-7	NORMAL	F12878	OS	04/11/02	04/25/02	04/25/02	14	0	14
%	13GLM03S01	F12878-1	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM09I01	F12878-5	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM09S01	F12878-6	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM16D01	F12878-10	NORMAL	F12878	OS	04/11/02	04/25/02	04/25/02	14	0	14
%	13GLM16I01	F12878-8	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM16I01D	F12878-9	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM17D01	F12878-13	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM17I01	F12878-12	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13GLM17S01	F12878-11	NORMAL	F12878	OS	04/11/02	04/18/02	04/23/02	7	5	12
%	13RL041102	F12878-4	NORMAL	F12878	OS	04/11/02	04/25/02	04/25/02	14	0	14
%	13GLM010I01	F12878-3	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
%	13GLM010S01	F12878-2	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM01S01D	F12878-7MS	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM03S01	F12878-1	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM09I01	F12878-5	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
%	13GLM09S01	F12878-6	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM16D01	F12878-10	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM16I01	F12878-8	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM16I01D	F12878-9	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM17D01	F12878-13	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM17I01	F12878-12	NORMAL	F12878	OV	04/11/02	/ /	04/17/02	0	0	6
%	13GLM17S01	F12878-11	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
%	13RL041102	F12878-4	NORMAL	F12878	OV	04/11/02	/ /	04/16/02	0	0	5
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
%	13GLM03S01	GP3112-S2	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	SO4	04/11/02	04/12/02	04/12/02	1	0	1
MG/L	13GLM010I01	F12878-3	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM010S01	F12878-2	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM01S01D	F12878-7	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM03S01	F12878-1	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM09I01	F12878-5	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM09S01	F12878-6	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM16D01	F12878-10	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM16I01	F12878-8	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM16I01D	F12878-9	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM17D01	F12878-13	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM17I01	F12878-12	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21
MG/L	13GLM17S01	F12878-11	NORMAL	F12878	TOC	04/11/02	/ /	05/02/02	0	0	21

FIELD DUPLICATE PRECISION

ANALYTE	13GLM010S01D	13GLM010S01	RPD	DIFFERENCE
Calcium	26600	27700	4.05	1100
Magnesium	1030	1060	2.87	30
Manganese	14.6	15.6	6.62	1
Potassium	1690	1750	3.49	60
Sodium	2520	2750	8.73	230
TOC	57.2	68	17.25	10.8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2774 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2.0	2020	101.0	2.0	2040	102.0	2.0	2060	103.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42700	106.8	40	43000	107.5	40	43500	108.8
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41900	104.8	40	42100	105.3	40	42600	106.5
Manganese	2.0	2080	104.0	2.0	2090	104.5	2.0	2100	105.0
Molybdenum									
Nickel	anr								
Potassium	40	40200	100.5	40	39800	99.5	40	39900	99.8
Selenium	anr								
Silver	anr								
Sodium	40	38200	95.5	40	38300	95.8	40	38400	96.0
Thallium									
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2774 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2.0	1990	99.5	2.0	2020	101.0	2.0	2090	104.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	41900	104.8	40	42600	106.5	40	43600	109.0
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41000	102.5	40	41400	103.5	40	43000	107.5
Manganese	2.0	2050	102.5	2.0	2070	103.5	2.0	2120	106.0
Molybdenum									
Nickel	anr								
Potassium	40	39800	99.5	40	39300	98.3	40	38000	95.0
Selenium	anr								
Silver	anr								
Sodium	40	37300	93.3	40	36700	91.8	40	36600	91.5
Thallium									
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2020	101.0	2.0	2010	100.5	2.0	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42200	105.5	40	41900	104.8	40	42600	106.5
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41400	103.5	40	41000	102.5	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2070	103.5	2.0	2090	104.5
Molybdenum	anr								
Nickel	anr								
Potassium	40	39900	99.8	40	39800	99.5	40	39900	99.8
Selenium	anr								
Silver	anr								
Sodium	40	38000	95.0	40	37100	92.8	40	37500	93.8
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2050	102.5	2.0	2050	102.5	2.0	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42900	107.3	40	42800	107.0	40	43400	108.5
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	42300	105.8	40	42200	105.5	40	42800	107.0
Manganese	2.0	2100	105.0	2.0	2100	105.0	2.0	2110	105.5
Molybdenum	anr								
Nickel	anr								
Potassium	40	40000	100.0	40	40200	100.5	40	40100	100.3
Selenium	anr								
Silver	anr								
Sodium	40	37600	94.0	40	37700	94.3	40	38500	96.3
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2775 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2.0	2090	104.5
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	40	43700	109.3
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	40	43200	108.0
Manganese	2.0	2130	106.5
Molybdenum	anr		
Nickel	anr		
Potassium	40	40400	101.0
Selenium	anr		
Silver	anr		
Sodium	40	39000	97.5
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2780 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2010	100.5	2.0	2020	101.0	2.0	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2780 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2.0	1990	99.5
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2774 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40			
Antimony	0.010		anr	
Arsenic	0.020		18.3	91.5
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		2060	103.0
Chromium	0.020		anr	
Cobalt	0.10			
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		9800	98.0
Manganese	0.030		30.2	100.7
Molybdenum	0.10			
Nickel	0.080		anr	
Potassium	10		9420	94.2
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		8210	82.1
Thallium	0.020			
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040		anr	

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2775 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		anr	
Antimony	0.010		anr	
Arsenic	0.020		23.2	116.0
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		2020	101.0
Chromium	0.020		anr	
Cobalt	0.10		anr	
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		9720	97.2
Manganese	0.030		30.1	100.3
Molybdenum	0.10		anr	
Nickel	0.080		anr	
Potassium	10		9430	94.3
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		8620	86.2
Thallium	0.020		anr	
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040			

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA2780 Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		anr	
Antimony	0.010		anr	
Arsenic	0.020		17.9	89.5
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		anr	
Chromium	0.020		anr	
Cobalt	0.10		anr	
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		anr	
Manganese	0.030		anr	
Molybdenum	0.10		anr	
Nickel	0.080		anr	
Potassium	10		anr	
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		anr	
Thallium	0.020		anr	
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040			

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA2774 Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56								
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	0.91	<10	0.090	<10	0.42	<10	-0.11	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	-1.6	<1000	4.1	<1000	-3.0	<1000	13.3	<1000
Chromium	10	.43	anr							
Cobalt	50	.5								
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	-0.15	<5000	9.2	<5000	0.17	<5000	3.0	<5000
Manganese	15	.16	-0.090	<15	-1.7	<15<	-1.6	<15<	-1.4	<15
Molybdenum	50	.75								
Nickel	40	1.08	anr							
Potassium	5000	13.9	641	<5000<	626	<5000<	643	<5000<	655	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	-110	<5000	-40	<5000	120	<5000	59.4	<5000
Thallium	0.010	1.49								
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC
QC Limits: result < RL

Date Analyzed: 04/18/02
Run ID: MA2774

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final
Aluminum	200	6.56				
Antimony	0.0050	1.52	anr			
Arsenic	0.010	2.83	-0.56	<10	2.4	<10
Barium	200	.49	anr			
Beryllium	5.0	.26	anr			
Cadmium	5.0	.26	anr			
Calcium	1000	3.82	10.6	<1000	8.1	<1000
Chromium	10	.43	anr			
Cobalt	50	.5				
Copper	25	.44	anr			
Iron	300	7.11	anr			
Lead	0.0050	1.22	anr			
Magnesium	5000	9.88	6.2	<5000	10.1	<5000
Manganese	15	.16	-1.4	<15	-1.2	<15
Molybdenum	50	.75				
Nickel	40	1.08	anr			
Potassium	5000	13.9	633	<5000<	666	<5000<
Selenium	0.010	1.98	anr			
Silver	10	.55	anr			
Sodium	5000	145	192	<5000	88.9	<5000
Thallium	0.010	1.49				
Tin	50	2.18				
Vanadium	50	.47	anr			
Zinc	20	.59	anr			

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC
QC Limits: result < RL

Date Analyzed: 04/19/02
Run ID: MA2775

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	1.5	<10	2.0	<10	0.16	<10	2.7	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	-1.6	<1000	14.7	<1000	5.0	<1000	5.0	<1000
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	6.7	<5000	15.0	<5000	-1.6	<5000	9.4	<5000
Manganese	15	.16	0.0	<15	-0.53	<15	-0.58	<15	-0.39	<15
Molybdenum	50	.75	anr							
Nickel	40	1.08	anr							
Potassium	5000	13.9	549	<5000<	649	<5000<	573	<5000<	550	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	435	<5000	73.3	<5000	8.0	<5000	291	<5000
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC
QC Limits: result < RL

Date Analyzed: 04/19/02
Run ID: MA2775

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr					
Antimony	0.0050	1.52	anr					
Arsenic	0.010	2.83	2.5	<10	0.79	<10	1.4	<10
Barium	200	.49	anr					
Beryllium	5.0	.26	anr					
Cadmium	5.0	.26	anr					
Calcium	1000	3.82	5.9	<1000	2.1	<1000	1.2	<1000
Chromium	10	.43	anr					
Cobalt	50	.5	anr					
Copper	25	.44	anr					
Iron	300	7.11	anr					
Lead	0.0050	1.22	anr					
Magnesium	5000	9.88	6.4	<5000	7.4	<5000	0.90	<5000
Manganese	15	.16	-0.34	<15	-0.17	<15	-0.31	<15
Molybdenum	50	.75	anr					
Nickel	40	1.08	anr					
Potassium	5000	13.9	678	<5000<	642	<5000<	623	<5000<
Selenium	0.010	1.98	anr					
Silver	10	.55	anr					
Sodium	5000	145	444	<5000	476	<5000	139	<5000
Thallium	0.010	1.49	anr					
Tin	50	2.18						
Vanadium	50	.47	anr					
Zinc	20	.59	anr					

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC
QC Limits: result < RL

Date Analyzed: 04/23/02
Run ID: MA2780

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	1.2	<10	-1.8	<10	-1.1	<10	-0.51	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	anr							
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	anr							
Manganese	15	.16	anr							
Molybdenum	50	.75	anr							
Nickel	40	1.08	anr							
Potassium	5000	13.9	anr							
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	anr							
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/17/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56		
Antimony	5.0	1.52	anr	
Arsenic	10	2.83	1.5	<10
Barium	200	.49	anr	
Beryllium	5.0	.26	anr	
Cadmium	5.0	.26		
Calcium	1000	3.82	13.1	<1000
Chromium	10	.43	anr	
Cobalt	50	.5		
Copper	25	.44	anr	
Iron	300	7.11	anr	
Lead	5.0	1.22	anr	
Magnesium	5000	9.88	2.6	<5000
Manganese	15	.16	-1.6	<15
Molybdenum	50	.75		
Nickel	40	1.08	anr	
Potassium	5000	13.9	619	<5000
Selenium	10	1.98		
Silver	10	.55		
Sodium	5000	145	163	<5000
Thallium	10	1.49		
Tin	50	2.18		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	anr	
Antimony	5.0	1.52	anr	
Arsenic	10	2.83	1.7	<10
Barium	200	.49	anr	
Beryllium	5.0	.26	anr	
Cadmium	5.0	.26	anr	
Calcium	1000	3.82	1.1	<1000
Chromium	10	.43	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.11	anr	
Lead	5.0	1.22	anr	
Magnesium	5000	9.88	-1.9	<5000
Manganese	15	.16	-1.8	<15
Molybdenum	50	.75	anr	
Nickel	40	1.08	anr	
Potassium	5000	13.9	526	<5000
Selenium	10	1.98	anr	
Silver	10	.55	anr	
Sodium	5000	145	268	<5000
Thallium	10	1.49	anr	
Tin	50	2.18		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4344
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/17/02

Metal	F12913-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	44.8	46.3	3.4	0-10
Barium	anr			
Beryllium	anr			
Cadmium				
Calcium	60200	60100	0.1	0-10
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	1520	1490	1.8	0-10
Manganese	1.79	0.00	100.0(a)	0-10
Molybdenum				
Nickel	anr			
Potassium	967	3540	265.9*(b	0-10
Selenium				
Silver				
Sodium	4280	4480	4.6	0-10
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4344: F12878-1, F12878-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4347
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/18/02

Metal	F12925-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	314000	330000	5.2	0-10
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	9870	10300	4.0	0-10
Manganese	25.8	19.4	24.6*(a)	0-10
Molybdenum	anr			
Nickel	anr			
Potassium	66800	63900	4.2	0-10
Selenium	anr			
Silver	anr			
Sodium	133000	116000	12.7*(a)	0-10
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4347: F12878-3, F12878-4, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9, F12878-10, F12878-11, F12878-12, F12878-13

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2774
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:13	MA2774-ICV1	1		
10:16	MA2774-ICB1	1		
10:19	MA2774-CRI1	1		
10:22	MA2774-ICSA1	1		
10:26	MA2774-ICSA2	1		
10:29	MA2774-ICSAB1	1		
10:33	MA2774-CCV1	1		
10:38	MA2774-CCB1	1		
10:42	MP4343-MB1	1		
10:46	MP4343-B1	1		
10:50	F12902-1	1		(sample used for QC only; not part of login F12878)
10:54	MP4343-S1	1		
10:57	MP4343-D1	1		
11:01	MP4343-SD1	5		
11:05	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:21	MA2774-CCV2	1		
11:26	MA2774-CCB2	1		
11:49	ZZZZZZ	1		
11:53	MP4344-MB1	1		
11:57	MP4344-B1	1		
12:01	F12913-1	1		(sample used for QC only; not part of login F12878)
12:05	MP4344-S1	1		
12:08	MP4344-S2	1		
12:12	MP4344-D1	1		
12:16	MP4344-SD1	5		
12:20	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:28	MA2774-CCV3	1		
12:33	MA2774-CCB3	1		
12:37	ZZZZZZ	1		

0784

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0418M5.ASC Date Analyzed: 04/18/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2774
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:41	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:16	MA2774-CCV4	1		
13:21	MA2774-CCB4	1		
13:25	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:45	F12878-1	1		
13:49	F12878-2	1		
---------->	Last reportable sample/prep for job F12878			
13:52	ZZZZZZ	10		
14:09	MA2774-CCV5	1		
14:14	MA2774-CCB5	1		
---------->	Last reportable CCB for job F12878			

Refer to raw data for calibration curve and standards.

0785

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2775
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:08	MA2775-ICV1	1		
13:12	MA2775-ICB1	1		
13:15	MA2775-CRI1	1		
13:18	MA2775-ICSA1	1		
13:24	MA2775-ICSA2	1		
13:25	MA2775-ICSAB1	1		
13:29	MA2775-CCV1	1		
13:34	MA2775-CCB1	1		
13:38	MP4347-MB1	1		
13:42	MP4347-B1	1		
13:47	F12925-1	1		(sample used for QC only; not part of login F12878)
13:51	MP4347-S1	1		
13:54	MP4347-S2	1		
14:01	MP4347-D1	1		
14:05	MP4347-SD1	5		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:20	MA2775-CCV2	1		
14:25	MA2775-CCB2	1		
14:29	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:37	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:49	F12878-3	1		
14:53	F12878-4	1		
14:57	F12878-5	1		
15:01	F12878-6	1		
15:04	F12878-7	1		
15:08	MA2775-CCV3	1		
15:14	MA2775-CCB3	1		
15:17	F12878-8	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0419M6.ASC Date Analyzed: 04/19/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2775
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:21	F12878-9	1		
15:25	F12878-10	1		
15:29	F12878-11	1		
15:33	F12878-12	1		
15:37	F12878-13	1		
15:41	MP4348-MB1	1		
15:45	MP4348-B1	1		
15:50	F12924-1	1		(sample used for QC only; not part of login F12878)
15:54	MP4348-S1	1		
15:58	MA2775-CCV4	1		
16:03	MA2775-CCB4	1		
16:07	MP4348-S2	1		
16:13	MP4348-D1	1		
16:17	MP4348-SD1	5		
16:21	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:44	ZZZZZZ	1		
16:48	MA2775-CCV5	1		
16:53	MA2775-CCB5	1		
16:58	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:13	ZZZZZZ	1		
17:17	MP4347-MB1	1		

----------> Last reportable sample/prep for job F12878

17:21	MA2775-CCV6	1		
17:26	MA2775-CCB6	1		

----------> Last reportable CCB for job F12878

Refer to raw data for calibration curve and standards.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0423M5.ASC Date Analyzed: 04/23/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2780
Parameters: As

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:36	MA2780-ICV1	1		
10:38	MA2780-ICB1	1		
10:41	MA2780-CRI1	1		
10:48	MA2780-ICSA1	1		
10:52	MA2780-ICSA2	1		
10:53	MA2780-ICSAB1	1		
10:57	MA2780-CCV1	1		
11:02	MA2780-CCB1	1		
11:06	MP4355-MB1	1		
11:10	MP4355-B1	1		
11:15	F12939-5	1		(sample used for QC only; not part of login F12878)
11:19	MP4355-S1	1		
11:24	MP4355-D1	1		
11:28	MP4355-SD1	5		
11:32	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:40	ZZZZZZ	1		
11:44	ZZZZZZ	1		
11:48	MA2780-CCV2	1		
11:53	MA2780-CCB2	1		
11:57	ZZZZZZ	1		
12:01	F12878-11	1		
---------->	Last reportable sample/prep for job F12878			
12:04	MP4354-S2	1		
12:08	MA2780-CCV3	1		
12:13	MA2780-CCB3	1		
---------->	Last reportable CCB for job F12878			

Refer to raw data for calibration curve and standards.

Metals Digestion Log: Water

Method of Digestion: SW846-3010A **Temp:** 93 **Thermometer ID** 46

	HNO_3	HCl
Added:		
Mfg:	Fisher	Fisher
Lot#	1101149	4101031

MP4344

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 4/17/02	50ml	50ml	4/17/02	
SB ↓	↓	↓	↓	1ml acc 254+, 25ml acc 257
MS F12913-1				+5ml net 714
MSD F12913-1				↓
Dup F12913-1				
1 QC F12913-1				
2 F12913-3				
3 F12891-20				
4 ↓ -21				
5 -22				
6 ↓ -23				
7 F12906-1				
8 ↓ -4				
9 ↓ -5				
10 F12907-1				
11 ↓ -2				
12 -3				
13 -4				
14 ↓ -5				
15 F12908-1				
16 ↓ -2				
17 -3				
18 ↓ -4				
19 F12878-1				
20 ↓ -2	↓	↓	↓	

Analyst DMetzger **Date** 4/17/02

QC Review [illegible] **Date** 4/17/02

Rev. 07/23/01 SI

Page Number: 025

C790

Metals Digestion Log: Water

Method of Digestion: SW846-3010A **Temp:** 92 **Thermometer ID** 46

	HNO3	HCl
Added:		
Mfg:	Fisher	Fisher
Lot#	1101040	4101031

MP4347

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 4/18/02	50 ml	50 ml	4/18/02	
SB ↓	↓	↓	↓	lin/acc 255 + .25 ml acc 251
MS F12925-1				+ .5 ml met 714
MSD F12925-1				↓
Dup F12925-1				
1 QC F12925-1				
2 -2				
3 -3				
4 -4				
5 -5				
6 -6				
7 F12883-1				
8 ↓ -1A				
9 F12932-1				
10 F12878-3				
11 -4				
12 -5				
13 -6				
14 -7				
15 -8				
16 -9				
17 -10				
18 -11				
19 -12				
20 -13	↓	↓	↓	

Analyst [signature] **Date** 4/18/02

QC Review [signature] **Date** 4/18/02

Rev. 07/23/01 SI

Page Number: 026

0791

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits
Chloride	GP3112/GN9278	20	<20	mg/l	96.9	90-110%
Nitrogen, Nitrate	GP3112/GN9278	0.10	<0.10	mg/l	95.0	90-110%
Nitrogen, Nitrite	GP3112/GN9278	0.10	<0.10	mg/l	95.0	90-110%
Sulfate	GP3112/GN9278	20	<20	mg/l	93.7	90-110%

Associated Samples:
Batch GP3112: F12878-1, F12878-10, F12878-11, F12878-12, F12878-13, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP3112/GN9278	F12878-1	mg/l	<10	100	98.4	98.4	80-120%
Chloride	GP3112/GN9278	F12878-1	mg/l	<10	100	98.5	98.5	80-120%
Nitrogen, Nitrate	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.93	93.0	80-120%
Nitrogen, Nitrate	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.95	95.0	80-120%
Nitrogen, Nitrite	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.95	95.0	80-120%
Nitrogen, Nitrite	GP3112/GN9278	F12878-1	mg/l	<0.050	1	0.92	92.0	80-120%
Sulfate	GP3112/GN9278	F12878-1	mg/l	<10	100	93.2	93.2	80-120%
Sulfate	GP3112/GN9278	F12878-1	mg/l	<10	100	93.4	93.4	80-120%

Associated Samples:
Batch GP3112: F12878-1, F12878-10, F12878-11, F12878-12, F12878-13, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12878
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP3112/GN9278	F12878-1	mg/l	<10	<10	0.0	0-20%
Nitrogen, Nitrate	GP3112/GN9278	F12878-1	mg/l	<0.050	<0.050	0.0	0-20%
Nitrogen, Nitrite	GP3112/GN9278	F12878-1	mg/l	<0.050	<0.050	0.0	0-20%
Sulfate	GP3112/GN9278	F12878-1	mg/l	<10	<10	0.0	0-20%

Associated Samples:
Batch GP3112: F12878-1, F12878-10, F12878-11, F12878-12, F12878-13, F12878-2, F12878-3, F12878-5, F12878-6, F12878-7, F12878-8, F12878-9

C988

13GLM010F01

Method: TRACE6 Sample Name: F12878-3 Operator: DM
Run Time: 04/19/02 14:49 Filename: R0419M6
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.3845	.0016	.0125	-.0003	10.68
SDev	.0014	.0037	.001	.0001	.0001	.0342
%RSD	88.43	.9503	60.9	1.262	20.39	.3201

Ca = 10.68 mg/Kg
10,700 ug/Kg

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0002	.0023	.0015	1.395	2.461
SDev	.0001	.0004	.0004	.0005	.0021	.1356
%RSD	18.07	187.6	19.15	36.37	.1472	5.509

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8529	.0110	-.0015	4.258	.0024	.0014
SDev	.0061	.0001	.0002	.1278	.0007	.0046
%RSD	.712	.8794	12.87	3.002	29.15	326.7

Elems	2203/2	Pb2203	Se1960	Sb2068	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0021	.0014	.0021	-.0065	.0035
SDev	.004	.0012	.0028	.0005	.004	.0058
%RSD	737.6	57.06	205	25.99	61.99	166.4

Elems	Sn1899	V 2924	Zn2062	Tl1908
Units	ppm	ppm	ppm	ppm
Avge	.0006	.0009	.0122	-.0053
SDev	.0014	.0003	.0005	.0057
%RSD	239.3	31.96	3.973	108.6

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. G. WALKER**	**DATE:**	**JUNE 5, 2002**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION- PAH CTO 184, CSS PANAMA CITY SDG F12878R**		
SAMPLES:	13/Aqueous		

13GLM03S01	13GLM010S01	13GLM010I01	13RL041102
13GLM09I01	13GLM09S01	13GLM010S01D	13GLM16I01
13GLM16I01D	13GLM16D01	13GLM17S01	13GLM17I01
13GLM17D01			

OVERVIEW

The sample set for CTO 184 CSS Panama, SDG F12878R consists of, one (1) rinsate blank, two (2) field duplicates, and ten (10) aqueous environmental samples. The samples were analyzed for PAHs. Two (2) field duplicate pairs were included in this SDG: 13GLM16I01 / 13GLM16I01D and 13GLM010S01 / 13GLM010S01D.

The samples were collected by TetraTech NUS on April 11, 2002 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8270C selective ion monitoring (SIM) analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- * Data completeness
- * Holding times
- Initial/continuing calibrations
- * Laboratory method blank results
- * Surrogate Recoveries
- * Blank Spike/Blank Spike Duplicate Results
- * Matrix Spike/Matrix Spike Duplicate Results
- * Field Duplicate Results
- * Compound Quantitation
- * Compound Identification
- * Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

PAHs

Surrogate and matrix spike recoveries for the SIM analysis were not reported because the same extracts used for the SVOA analysis were used for the SIM analysis. The surrogate and matrix spike concentrations in the extracts are over calibration for SIM analysis. However, all surrogate and matrix spike recoveries were within

quality control criteria for the SVOA analysis so no action was taken on the lack of surrogate and matrix spike recoveries for SIM analysis.

Several blank spike recoveries for the SVOA analysis did not meet quality control criteria. The samples were re-extracted, outside of hold time, with acceptable recoveries. No action was taken since the MS/MSDs met quality control criteria.

Continuing calibration analyzed on 5/24/02 had a percent difference (%D) that exceeded the 25% quality control limit for indeno(1,2,3-cd)pyrene. Non-detected results for indeno(1,2,3-cd)pyrene in all samples were qualified as estimated, "UJ".

Additional Comments:

Sample 13GLM010S01D was shipped to the laboratory but not listed on the C.O.C. to be analyzed. The laboratory incorrectly logged the sample in as 13GLM01S01D. The sample has been transcribed correctly in the database.

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Indeno(1,2,3-cd)pyrene exceeded the continuing calibration %D criteria.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

FOR

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 2834

SDG: F12878R MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM010I01
samp_date	4/11/02
lab_id	F12878-3R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	0.56	J	P
2-METHYLNAPHTHALENE	0.68	J	P
ACENAPHTHENE	1.1	U	
ACENAPHTHYLENE	1.1	U	
ANTHRACENE	1.1	U	
BENZO(A)ANTHRACENE	0.22	U	
BENZO(A)PYRENE	0.22	U	
BENZO(B)FLUORANTHENE	0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U	
BENZO(K)FLUORANTHENE	0.22	U	
CHRYSENE	0.22	U	
DIBENZO(A,H)ANTHRACENE	0.22	U	
FLUORANTHENE	1.1	U	
FLUORENE	1.1	U	
INDENO(1,2,3-CD)PYRENE	0.22	UJ	C
NAPHTHALENE	0.77	J	P
PHENANTHRENE	1.1	U	
PYRENE	1.1	U	

6-11-02
JAd

nsample	13GLM010S01
samp_date	4/11/02
lab_id	F12878-2R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	16		
2-METHYLNAPHTHALENE	18.8		
ACENAPHTHENE	1.7		
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	0.96	J	P
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	21		
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM03S01
samp_date	4/11/02
lab_id	F12878-1R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	4.5		
2-METHYLNAPHTHALENE	2.9		
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	11.5		
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 2834

SDG: F12878R MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM09I01
samp_date	4/11/02
lab_id	F12878-5R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM09S01
samp_date	4/11/02
lab_id	F12878-6R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	2		
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	0.57	J	P
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1.6		
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM16D01
samp_date	4/11/02
lab_id	F12878-10R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 2834

SDG: F12878R MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM16I01
samp_date	4/11/02
lab_id	F12878-8R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM16I01D
samp_date	4/11/02
lab_id	F12878-9R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM16I01

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM17D01
samp_date	4/11/02
lab_id	F12878-13R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 2834

SDG: F12878R MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM17I01
samp_date	4/11/02
lab_id	F12878-12R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	0.79	J	P
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	0.84	J	P
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM17S01
samp_date	4/11/02
lab_id	F12878-11R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	0.52	J	P
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GML010S01D
samp_date	4/11/02
lab_id	F12878-7R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	13GLM010S01

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	15.9		
2-METHYLNAPHTHALENE	18.8		
ACENAPHTHENE	2.2		
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1		
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	20.5		
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 2834

SDG: F12878R MEDIA: WATER DATA FRACTION: PAH

nsample	13RL041102
samp_date	4/11/02
lab_id	F12878-4R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010I01		
Lab Sample ID:	F12878-3R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010190.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.1	ug/l	
208-96-8	Acenaphthylene	ND	1.1	ug/l	
120-12-7	Anthracene	ND	1.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	0.22	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	1.1	ug/l	
86-73-7	Fluorene	ND	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
90-12-0	1-Methylnaphthalene	0.56	1.1	ug/l	J
91-57-6	2-Methylnaphthalene	0.68	1.1	ug/l	J
91-20-3	Naphthalene	0.77	1.1	ug/l	J
85-01-8	Phenanthrene	ND	1.1	ug/l	
129-00-0	Pyrene	ND	1.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010189.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.7	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.96	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	16.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	18.8	1.0	ug/l	
91-20-3	Naphthalene	21.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM03S01		
Lab Sample ID:	F12878-1R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010188.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	4.5	1.0	ug/l	
91-57-6	2-Methylnaphthalene	2.9	1.0	ug/l	
91-20-3	Naphthalene	11.5	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09I01		
Lab Sample ID:	F12878-5R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010192.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM09S01		
Lab Sample ID:	F12878-6R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010193.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.57	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	2.0	1.0	ug/l	
91-20-3	Naphthalene	1.6	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16D01		
Lab Sample ID:	F12878-10R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010197.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01		
Lab Sample ID:	F12878-8R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010195.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM16I01D		
Lab Sample ID:	F12878-9R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010196.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17D01		
Lab Sample ID:	F12878-13R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010200.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17I01		
Lab Sample ID:	F12878-12R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010199.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.79	1.0	ug/l	J
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.84	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM17S01		
Lab Sample ID:	F12878-11R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010198.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.52	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

6-10-02 JAI

Report of Analysis

13GLM01S01D

Client Sample ID:	~~13GLM01S01~~D		
Lab Sample ID:	F12878-7R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010194.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	2.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	1.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	15.9	1.0	ug/l	
91-57-6	2-Methylnaphthalene	18.8	1.0	ug/l	
91-20-3	Naphthalene	20.5	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13RL041102		
Lab Sample ID:	F12878-4R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010191.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	TCL VOA	TCLSVOC	Metals	Dissolved Gases	TOC	Cl, SO4, NO2, NO3	LAB USE ONLY
1)	13GLM03S01	4-11-02	1215	JB	GW	11	X		X		X	3	2	1	3	1	1	
2)	13GLM010S01		1450			11	X		X		X	3	2	1	3	1	1	
3)	13GLM010I01		1520			11	X		X		X	3	2	1	3	1	1	
4)	13RL041102		1210			6	X		X		X	3	2	1	Ø	Ø	Ø	
5)	13GLM09I01		1030			11	X		X		X	3	2	1	3	1	1	
6)	13GLM09S01		0945			11	X		X		X	3	2	1	3	1	1	
7)	missing ASBD																	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Airbill # 8311-5257-8681

1/2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	1700 4/11/02	1.	2.		2. 04/12/02 - 0930
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 1.2°, 1.8, 2.4, 1.8 C

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12878 CONTD
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC 1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	/	TCL VOC's (8260B)	TCL SVOC's/PAH's (8270C)	Select Metals	Anions (NO2, NO3, SO4)	TOC	Dissolved Gases	LAB USE ONLY
8)	13GLM16I01	4/11/02	08:55	MA	GW	11	7	/	1	/	3	/	3	2	1	1	1	3	
9)	13GLM16I01D		08:55																
10)	13GLM16D01		09:50																
11)	13GLM17S01		11:35																
12)	13GLM17I01		14:55																
13)	13GLM17D01		12:40																

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TINUS

COMMENTS/REMARKS

Airbill # 831152528681

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. MA	4/11/02 18:06	1.	2.		2. 04/12/02 0930
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

F12878R

HOLDING TIME

06/03/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM010I01	F12878-3R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM010S01	F12878-2R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM01S01D	F12878-7R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM03S01	F12878-1R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM09I01	F12878-5R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM09S01	F12878-6R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM16D01	F12878-10R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM16I01	F12878-8R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM16I01D	F12878-9R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM17D01	F12878-13R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM17I01	F12878-12R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13GLM17S01	F12878-11R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43
UG/L	13RL041102	F12878-4R	NORMAL	F12878R	SIM	04/11/02	04/18/02	05/24/02	7	36	43

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834, CTO-0184, WR# PC184-2
Report Date: May 130 2002
Job Number: F12878R

13 samples were collected on April 11, 2002, and received on April 12, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.
Per Suzanne Smith on 5/24/02 we were to analyze the 8270C extracts for PAHs by SIM method. Ms. Smith was informed that there would be no reportable surrogates or spikes from these extracts.
We reported all PAH SIM data as is.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOC, SW846-8260B:

- The MS/MSD associated with analytical batch number VB399 had several recoveries below acceptance limits. All RPD were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number VB400 had several recoveries above and/or below acceptance limits. All RPD were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

SVOC, SW846-8270C:

- The Blank Spike associated with analytical batch number SW527 had several recoveries below acceptance limits. The Blank Spike was reanalyzed under batch SW528, with similar results. All associated samples were re-extracted outside of holding time to confirm results. The re-extracted Blank Spike was within acceptance limits and all sample results confirmed. Only the original analysis, extracted within hold, has been reported. All samples have been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch number MP4344 and MP4347 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number MP4347 had one RPD above acceptance limits. This high RPD was acceptable due to low duplicate and sample concentrations. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. ALSE routinely reports Organic target analytes down to 1/2 the Reporting Level. These positive results are flagged with a "J" qualifier. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Date: May 30, 2002

Sue O. Bell, Project Manager (signature on file)

0005

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F12878

Client/Project: TTNUS / CSS Panama City

Date/Time Received: 04/12/1 Total Number of Coolers 5

Method of Delivery: (FedEx) Greyhound UPS Pickup Delivery Other

Air Bill Number: 8311 5252 8681

Cooler Temperatures: 1.2, .08, 1.8, 2.4, 1.8

Custody Seals Intact?	(YES)	NO	
Trip Blank Intact?	YES	NO	~~NA~~ AEBP 04/12/02
Chain of Custody Provided?	(YES)	NO	
Chain of Custody Match Bottles?	YES	(NO)	
Sample Labels Present?	(YES)	NO	
Are All Bottles Unbroken?	(YES)	NO	
Proper Preservative?	(YES)	NO	
Correct Containers Used?	(YES)	NO	
Sufficient Sample Volume?	(YES)	NO	
Number of Encores			

Comments:

136MD501D was not listed on chain
Logged in As Sample

Trip Blank in cooler But not listed on chain

Signature: [signature] Date: 04/12/02

0007

Rev. 08/28/01 SI

Accutest Laboratories

Sample Summary

Tetra-Tech, NUS

Job No: F12878R

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC184-2

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12878-1R	04/11/02	12:15 JB	04/12/02	AQ	Ground Water	13GLM03S01
F12878-2R	04/11/02	14:50 JB	04/12/02	AQ	Ground Water	13GLM010S01
F12878-3R	04/11/02	15:20 JB	04/12/02	AQ	Ground Water	13GLM010I01
F12878-4R	04/11/02	12:10 JB	04/12/02	AQ	Ground Water	13RL041102
F12878-5R	04/11/02	10:30 JB	04/12/02	AQ	Ground Water	13GLM09I01
F12878-6R	04/11/02	09:45 JB	04/12/02	AQ	Ground Water	13GLM09S01
F12878-7R	04/11/02	12:15 JB	04/12/02	AQ	Ground Water	13GLM01S01D
F12878-8R	04/11/02	08:55 JB	04/12/02	AQ	Ground Water	13GLM16I01
F12878-9R	04/11/02	08:55 JB	04/12/02	AQ	Ground Water	13GLM16I01D
F12878-10R	04/11/02	09:50 JB	04/12/02	AQ	Ground Water	13GLM16D01
F12878-11R	04/11/02	11:35 JB	04/12/02	AQ	Ground Water	13GLM17S01
F12878-12R	04/11/02	14:55 JB	04/12/02	AQ	Ground Water	13GLM17I01
F12878-13R	04/11/02	12:40 JB	04/12/02	AQ	Ground Water	13GLM17D01

CALCULATION WORKSHEET Order No. 19116 (01-91)

PAGE ____ OF ____

CLIENT CSS Panama City	JOB NUMBER CT0184
SUBJECT PAH SIM	
BASED ON 8270C	DRAWING NUMBER
BY Ed Siellmyer	CHECKED BY / APPROVED BY / DATE

13GLM01050I

Naphthalene = 21.0 ng/l

$$\frac{1138582 \times 4}{189121 \times 1.145} = 21.0$$

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM010S01		
Lab Sample ID:	F12878-2R	**Date Sampled:**	04/11/02
Matrix:	AQ - Ground Water	**Date Received:**	04/12/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010189.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	1.7	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	0.96	1.0	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	16.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	18.8	1.0	ug/l	
91-20-3	Naphthalene	21.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052402A\W010189.D Vial: 5
Acq On : 24 May 2002 4:51 pm Operator: marke
Sample : f12878-2r Inst : MSBNA01
Misc : op5231,sw556,990,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 13:25 2002 Quant Results File: SIM_PAH.RES

Quant Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration
DataAcq Meth : SIM_PAH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.26	136	189121	4.00	ppm	0.00
7) Acenaphthene-d10	8.59	164	95540	4.00	ppm	-0.01
16) Phenanthrene-d10	11.12	188	134865	4.00	ppm	0.00
20) Chrysene-d12	16.04	240	79775	4.00	ppm	0.00
25) Perylene-d12	18.54	264	55066	4.00	ppm	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.54	82	853238	44.67	ppm	-0.02
Spiked Amount 10.000	Range 46 - 125		Recovery = 446.70%#			
9) 2-Fluorobiphenyl	7.61	172	2024820	47.51	ppm	0.00
Spiked Amount 10.000	Range 46 - 125		Recovery = 475.10%#			
22) Terphenyl-d14	14.15	244	882935	46.82	ppm	0.00
Spiked Amount 10.000	Range 49 - 126		Recovery = 468.20%#			
Target Compounds						Qvalue
4) Naphthalene	6.28	128	1138582	21.04	ppm	100
5) 2-Methylnaphthalene	7.11	142	643614	18.75	ppm	100
6) 1-Methylnaphthalene	7.23	142	492489	16.02	ppm	98
12) Acenaphthene	8.64	153	53354m	1.73	ppm	
15) Fluorene	9.48	166	32511m	0.96	ppm	

0034

(#) = qualifier out of range (m) = manual integration

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration

5/23/02

Calibration Files
L1 =W010123.D L2 =W010124.D L3 =W010125.D
L4 =W010122.D L5 =W010126.D L6 =W010127.D L7 =W010128.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8				ISTD					
2)S Nitrobenzene-d5	0.363	0.401	0.399	0.432	0.413	0.412	0.408	0.404	5.23
3)P N-nitroso-di-n-pr		0.235	0.229	0.236	0.218	0.202	0.199	0.220	7.35
4) Naphthalene	1.107	1.199	1.156	1.191	1.136	1.121	1.101	1.145	3.42
5) 2-Methylnaphthale	0.690	0.741	0.736	0.762	0.732	0.730	0.691	0.726	3.63
6) 1-Methylnaphthale	0.617	0.675	0.658	0.685	0.651	0.649	0.617	0.650	4.04
7) I Acenaphthene-d10				ISTD					
8)P Hexachlorocyclope		0.299	0.357	0.392	0.416	0.434	0.437	0.389	13.66
9)S 2-Fluorobiphenyl	1.620	1.784	1.809	1.821	1.821	1.837	1.799	1.784	4.18
10) 2-Chloronaphthale	1.386	1.587	1.530	1.562	1.543	1.530	1.530	1.524	4.23
11) Acenaphthylene	1.794	2.029	2.011	2.087	2.027	2.056	2.004	2.001	4.78
12)C Acenaphthene	1.175	1.327	1.329	1.342	1.300	1.316	1.256	1.292	4.53
13)P 2,4-Dinitrophenol		0.101	0.153	0.188	0.228	0.252	0.237	0.193	29.82
14)P 4-Nitrophenol		0.246	0.264	0.273	0.268	0.290	0.256	0.266	5.67
15) Fluorene	1.269	1.422	1.442	1.466	1.444	1.484	1.398	1.418	5.04
16) I Phenanthrene-d10				ISTD					
17) Phenanthrene	1.226	1.342	1.320	1.373	1.321	1.319	1.301	1.314	3.44
18) Anthracene	1.123	1.293	1.297	1.344	1.321	1.293	1.252	1.275	5.71
19)C Fluoranthene	1.092	1.282	1.323	1.373	1.345	1.380	1.315	1.301	7.57
20) I Chrysene-d12				ISTD					
21) Pyrene	2.019	2.179	2.215	2.381	2.213	2.159	2.188	2.193	4.85
22)S Terphenyl-d14	0.858	0.914	0.935	0.998	0.975	0.966	0.972	0.945	5.03
23) Benzo[a]anthracen	1.410	1.466	1.419	1.527	1.510	1.586	1.545	1.495	4.40
24) Chrysene	1.412	1.523	1.533	1.579	1.563	1.581	1.557	1.536	3.82
25) I Perylene-d12				ISTD					
26) Benzo[b]fluoranth	1.637	1.839	1.710	1.823	1.974	2.055	2.063	1.871	8.87
27) Benzo[k]fluoranth	1.706	1.910	2.020	2.115	2.277	2.276	2.353	2.094	11.10
28)C Benzo[a]pyrene	1.409	1.449	1.466	1.607	1.685	1.776	1.731	1.589	9.33
29) Indeno[1,2,3-cd]p	1.048	1.031	1.083	1.220	1.124	1.226	1.226	1.137	7.63
30) Dibenz[a,h]anthra	0.968	0.981	1.069	1.213	1.223	1.353	1.360	1.167	14.03
31) Benzo[g,h,i]peryl	1.305	1.402	1.442	1.517	1.528	1.601	1.604	1.485	7.35

Average % RSD = 7.25816

0103

(#) = Out of Range

FIELD DUPLICATE PRECISION

ANALYTE	13GLM010S01	13GLM01S01D	RPD	DIFFERENCE
Acenaphthene	1.7	2.2	25.64	0.5
Fluorene	0.96J	1	#VALUE!	#VALUE!
1-Methylnaphthalene	16	15.9	0.63	0.1
2-Methylnaphthalene	18.8	18.8	0.00	0
Naphthalene	21	20.5	2.41	0.5

Method Blank Summary

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5231-MB	W010187.D	1	05/24/02	ME	04/18/02	OP5231	SW556

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F12878-1R, F12878-2R, F12878-3R, F12878-4R, F12878-5R, F12878-6R, F12878-7R, F12878-8R, F12878-9R, F12878-10R, F12878-11R, F12878-12R, F12878-13R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

Instrument Performance Check (DFTPP)

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW556-DFTPP
Lab File ID: W010185.D
Instrument ID: GCMSW
Injection Date: 05/24/02
Injection Time: 15:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	95972	41.3		Pass
68	Less than 2.0% of mass 69	252	0.11	(0.32) [a]	Pass
69	Mass 69 relative abundance	78760	33.9		Pass
70	Less than 2.0% of mass 69	196	0.08	(0.25) [a]	Pass
127	25.0 - 75.0% of mass 198	92035	39.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	232427	100.0		Pass
199	5.0 - 9.0% of mass 198	15388	6.6		Pass
275	10.0 - 30.0% of mass 198	54579	23.5		Pass
365	0.75 - 100.0% of mass 198	5384	2.3		Pass
441	Present, but less than mass 443	28026	12.1	(80.5) [b]	Pass
442	40.0 - 100.0% of mass 198	185064	79.6		Pass
443	15.0 - 24.0% of mass 442	34830	15.0	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW556-CC553	W010186.D	05/24/02	15:21	00:20	Continuing cal 4
OP5231-MB	W010187.D	05/24/02	15:51	00:50	Method Blank
F12878-1R	W010188.D	05/24/02	16:21	01:20	13GLM03S01
F12878-2R	W010189.D	05/24/02	16:51	01:50	13GLM010S01
F12878-3R	W010190.D	05/24/02	17:21	02:20	13GLM010I01
F12878-4R	W010191.D	05/24/02	17:50	02:49	13RL041102
F12878-5R	W010192.D	05/24/02	18:20	03:19	13GLM09I01
F12878-6R	W010193.D	05/24/02	18:50	03:49	13GLM09S01
F12878-7R	W010194.D	05/24/02	19:19	04:18	13GLM01S01D
F12878-8R	W010195.D	05/24/02	19:49	04:48	13GLM16I01
F12878-9R	W010196.D	05/24/02	20:18	05:17	13GLM16I01D
F12878-10R	W010197.D	05/24/02	20:47	05:46	13GLM16D01
F12878-11R	W010198.D	05/24/02	21:17	06:16	13GLM17S01
F12878-12R	W010199.D	05/24/02	21:46	06:45	13GLM17I01
F12878-13R	W010200.D	05/24/02	22:16	07:15	13GLM17D01
ZZZZZZ	W010201.D	05/24/02	22:45	07:44	(unrelated sample)
ZZZZZZ	W010202.D	05/24/02	23:15	08:14	(unrelated sample)
ZZZZZZ	W010203.D	05/24/02	23:44	08:43	(unrelated sample)
ZZZZZZ	W010204.D	05/25/02	00:14	09:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW553-DFTPP	**Injection Date:**	05/22/02
Lab File ID:	W010121.D	**Injection Time:**	08:58
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	68523	42.8		Pass
68	Less than 2.0% of mass 69	609	0.38	(1.1) [a]	Pass
69	Mass 69 relative abundance	55347	34.5		Pass
70	Less than 2.0% of mass 69	353	0.22	(0.64) [a]	Pass
127	25.0 - 75.0% of mass 198	64323	40.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	160203	100.0		Pass
199	5.0 - 9.0% of mass 198	10776	6.7		Pass
275	10.0 - 30.0% of mass 198	37363	23.3		Pass
365	0.75 - 100.0% of mass 198	3685	2.3		Pass
441	Present, but less than mass 443	19318	12.1	(77.3) [b]	Pass
442	40.0 - 100.0% of mass 198	128296	80.1		Pass
443	15.0 - 24.0% of mass 442	24999	15.6	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW553-ICC553	W010122.D	05/22/02	09:18	00:20	Initial cal 4
SW553-IC553	W010123.D	05/22/02	09:47	00:49	Initial cal 1
SW553-IC553	W010124.D	05/22/02	10:17	01:19	Initial cal 2
SW553-IC553	W010125.D	05/22/02	10:47	01:49	Initial cal 3
SW553-IC553	W010126.D	05/22/02	11:16	02:18	Initial cal 5
SW553-IC553	W010127.D	05/22/02	11:46	02:48	Initial cal 6
SW553-IC553	W010128.D	05/22/02	12:16	03:18	Initial cal 7
OP5156-MB	W010130.D	05/22/02	13:15	04:17	Method Blank
ZZZZZZ	W010131.D	05/22/02	13:44	04:46	(unrelated sample)
OP5176-BS	W010132.D	05/22/02	14:14	05:16	Blank Spike
OP5176-MB	W010133.D	05/22/02	14:44	05:46	Method Blank
ZZZZZZ	W010134.D	05/22/02	15:13	06:15	(unrelated sample)
F13228-3	W010135.D	05/22/02	15:43	06:45	(used for QC only; not part of job F12878R)
OP5176-MS	W010136.D	05/22/02	16:12	07:14	Matrix Spike
OP5176-MSD	W010137.D	05/22/02	16:42	07:44	Matrix Spike Duplicate
ZZZZZZ	W010138.D	05/22/02	17:12	08:14	(unrelated sample)
ZZZZZZ	W010139.D	05/22/02	17:41	08:43	(unrelated sample)
ZZZZZZ	W010140.D	05/22/02	18:11	09:13	(unrelated sample)
ZZZZZZ	W010141.D	05/22/02	18:41	09:43	(unrelated sample)

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration

5/23/02

Calibration Files
L1 =W010123.D L2 =W010124.D L3 =W010125.D
L4 =W010122.D L5 =W010126.D L6 =W010127.D L7 =W010128.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8				ISTD					
2)S Nitrobenzene-d5	0.363	0.401	0.399	0.432	0.413	0.412	0.408	0.404	5.23
3)P N-nitroso-di-n-pr		0.235	0.229	0.236	0.218	0.202	0.199	0.220	7.35
4) Naphthalene	1.107	1.199	1.156	1.191	1.136	1.121	1.101	1.145	3.42
5) 2-Methylnaphthale	0.690	0.741	0.736	0.762	0.732	0.730	0.691	0.726	3.63
6) 1-Methylnaphthale	0.617	0.675	0.658	0.685	0.651	0.649	0.617	0.650	4.04
7) I Acenaphthene-d10				ISTD					
8)P Hexachlorocyclope		0.299	0.357	0.392	0.416	0.434	0.437	0.389	13.66
9)S 2-Fluorobiphenyl	1.620	1.784	1.809	1.821	1.821	1.837	1.799	1.784	4.18
10) 2-Chloronaphthale	1.386	1.587	1.530	1.562	1.543	1.530	1.530	1.524	4.23
11) Acenaphthylene	1.794	2.029	2.011	2.087	2.027	2.056	2.004	2.001	4.78
12)C Acenaphthene	1.175	1.327	1.329	1.342	1.300	1.316	1.256	1.292	4.53
13)P 2,4-Dinitrophenol		0.101	0.153	0.188	0.228	0.252	0.237	0.193	29.82
14)P 4-Nitrophenol		0.246	0.264	0.273	0.268	0.290	0.256	0.266	5.67
15) Fluorene	1.269	1.422	1.442	1.466	1.444	1.484	1.398	1.418	5.04
16) I Phenanthrene-d10				ISTD					
17) Phenanthrene	1.226	1.342	1.320	1.373	1.321	1.319	1.301	1.314	3.44
18) Anthracene	1.123	1.293	1.297	1.344	1.321	1.293	1.252	1.275	5.71
19)C Fluoranthene	1.092	1.282	1.323	1.373	1.345	1.380	1.315	1.301	7.57
20) I Chrysene-d12				ISTD					
21) Pyrene	2.019	2.179	2.215	2.381	2.213	2.159	2.188	2.193	4.85
22)S Terphenyl-d14	0.858	0.914	0.935	0.998	0.975	0.966	0.972	0.945	5.03
23) Benzo[a]anthracen	1.410	1.466	1.419	1.527	1.510	1.586	1.545	1.495	4.40
24) Chrysene	1.412	1.523	1.533	1.579	1.563	1.581	1.557	1.536	3.82
25) I Perylene-d12				ISTD					
26) Benzo[b]fluoranth	1.637	1.839	1.710	1.823	1.974	2.055	2.063	1.871	8.87
27) Benzo[k]fluoranth	1.706	1.910	2.020	2.115	2.277	2.276	2.353	2.094	11.10
28)C Benzo[a]pyrene	1.409	1.449	1.466	1.607	1.685	1.776	1.731	1.589	9.33
29) Indeno[1,2,3-cd]p	1.048	1.031	1.083	1.220	1.124	1.226	1.226	1.137	7.63
30) Dibenz[a,h]anthra	0.968	0.981	1.069	1.213	1.223	1.353	1.360	1.167	14.03
31) Benzo[g,h,i]peryl	1.305	1.402	1.442	1.517	1.528	1.601	1.604	1.485	7.35

Average % RSD = 7.25816

0103

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052402A\W010186.D Vial: 2
Acq On : 24 May 2002 3:21 pm Operator: marke
Sample : cc553-4 Inst : MSBNA01
Misc : op5197,sw556,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Multiple Level Calibration

5/24/02

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	4.000	4.000	0.0	109	-0.02
2	S	Nitrobenzene-d5	4.000	4.184	-4.6	106	-0.02
3	P	N-nitroso-di-n-propylamine	50.000	54.467	-8.9	110	-0.01
4		Naphthalene	10.000	10.321	-3.2	108	-0.01
5		2-Methylnaphthalene	10.000	10.799	-8.0	112	-0.02
6		1-Methylnaphthalene	10.000	10.672	-6.7	110	-0.02
7	I	Acenaphthene-d10	4.000	4.000	0.0	113	-0.02
8	P	Hexachlorocyclopentadiene	50.000	47.537	4.9	107	-0.02
9	S	2-Fluorobiphenyl	4.000	4.092	-2.3	114	-0.01
10		2-Chloronaphthalene	10.000	9.989	0.1	110	-0.02
11		Acenaphthylene	10.000	10.472	-4.7	114	-0.01
12	C	Acenaphthene	10.000	10.245	-2.4	112	-0.01
13	P	2,4-Dinitrophenol	50.000	58.679	-17.4	136	-0.02
14	P	4-Nitrophenol	50.000	51.634	-3.3	114	-0.03
15		Fluorene	10.000	10.706	-7.1	117	-0.01
16	I	Phenanthrene-d10	4.000	4.000	0.0	119	-0.01
17		Phenanthrene	10.000	10.131	-1.3	115	-0.02
18		Anthracene	10.000	10.496	-5.0	118	-0.02
19	C	Fluoranthene	10.000	10.338	-3.4	116	-0.02
20	I	Chrysene-d12	4.000	4.000	0.0	115	-0.02
21		Pyrene	10.000	10.890	-8.9	115	-0.02
22	S	Terphenyl-d14	4.000	4.293	-7.3	117	-0.02
23		Benzo[a]anthracene	1.000	1.041	-4.1	117	-0.02
24		Chrysene	1.000	1.020	-2.0	114	-0.02
25	I	Perylene-d12	4.000	4.000	0.0	108	-0.02
26		Benzo[b]fluoranthene	1.000	1.073	-7.3	119	-0.02
27		Benzo[k]fluoranthene	1.000	1.030	-3.0	110	-0.02
28	C	Benzo[a]pyrene	1.000	1.067	-6.7	114	-0.02
29		Indeno[1,2,3-cd]pyrene	1.000	1.253	-25.3#	126	-0.02
30		Dibenz[a,h]anthracene	1.000	1.190	-19.0	123	-0.02
31		Benzo[g,h,i]perylene	1.000	1.073	-7.3	113	-0.01

Average % D = 6.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W010122.D SIM_PAH.M Fri May 24 15:46:20 2002 MSBNA01

Semivolatile Internal Standard Area Summary

Job Number: F12878R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std:	SW556-CC553	**Injection Date:**	05/24/02
Lab File ID:	W010186.D	**Injection Time:**	15:21
Instrument ID:	GCMSW	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	267529	6.25	134988	8.58	204032	11.11	115210	16.03	69524	18.53
Upper Limit [a]	535058	6.75	269976	9.08	408064	11.61	230420	16.53	139048	19.03
Lower Limit [b]	133765	5.75	67494	8.08	102016	10.61	57605	15.53	34762	18.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP5231-MB	250896	6.25	122772	8.58	186686	11.11	99049	16.03	60664	18.53
F12878-1R	165177	6.26	94385	8.59	118534	11.12	74391	16.04	52495	18.54
F12878-2R	189121	6.26	95540	8.59	134865	11.12	79775	16.04	55066	18.54
F12878-3R	221858	6.26	111732	8.59	171158	11.11	100976	16.03	63655	18.53
F12878-4R	233513	6.26	116804	8.58	178687	11.11	103220	16.03	65556	18.53
F12878-5R	229762	6.26	110367	8.58	168875	11.11	97214	16.03	63803	18.53
F12878-6R	215150	6.26	108731	8.58	163502	11.11	94910	16.04	61631	18.53
F12878-7R	209561	6.26	104979	8.59	148940	11.12	83367	16.05	54614	18.54
F12878-8R	226555	6.26	112729	8.59	173659	11.11	100788	16.03	63710	18.53
F12878-9R	235295	6.26	117696	8.59	175611	11.11	102744	16.04	64263	18.53
F12878-10R	228319	6.26	110497	8.58	167751	11.11	97641	16.03	62788	18.53
F12878-11R	243807	6.26	122448	8.59	181656	11.11	103935	16.03	62738	18.53
F12878-12R	228827	6.26	113019	8.59	172536	11.11	99168	16.03	62028	18.53
F12878-13R	226242	6.26	114082	8.59	172751	11.11	99698	16.03	61519	18.53
ZZZZZZ	211723	6.26	100493	8.59	155587	11.11	90819	16.03	59664	18.53
ZZZZZZ	239206	6.26	114637	8.59	170860	11.11	96848	16.04	61188	18.53
ZZZZZZ	231811	6.26	111229	8.59	166210	11.11	90436	16.04	55332	18.53
ZZZZZZ	234514	6.26	113285	8.58	169680	11.11	96899	16.03	60290	18.53
ZZZZZZ	222908	6.26	110661	8.58	169288	11.11	97416	16.03	60977	18.53

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

LIQUID SAMPLE PREP REPORT

Date: 5/28/02 Method*: 8270SIM Batch#: OPS231

Batch Started On: 4/18/02 Prior Number Of Samples in Batch : 0 Analyst: AA

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP S231 MB		1000ml	6	<2 >11	0.5ml		1ml	
OP ↓ BS		↓				0.5ml		5/28/02
F12878-1	9	1000						
-2	9	990						
-3	10	950						
-4	5	960						
-5	9	1000						
-6	9	1000						
-7	9	990						
-8	9	1000						
-9	9	1000						
-10	9	990						
-11	9	1000						
-12	9	1000						
-13	9	1000						
F12899-1	10	950						
-2	22	1000						
-3	10	1000						
-4	9	1000						
-5	9	1000	✓	✓	✓		✓	
OP MS								
OP MSD				5/28/02				
OP DUP								

Surrogate ID: E1034 C/D Conc: 200/100 ppm Exp. Date: 9/29/02 Bath Temp.: 70°C

Spike ID: Conc: Exp. Date: Bath Temp2.:

CH2CL2 Lot # CD710 Hexane Lot # Na2SO4 Lot# 41353202

Acetonitrile Lot # Methanol Lot # Acetone Lot#

Reagent # EB #244 H2SO4 Reagent # EB #254 NaOH Reagent #

Comments:

Relinquished By: Date: 5/28/02

Accepted By: Date: 5/28/02

0136

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids. 8330A and 8332 prepped by 3535A.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **G. WALKER** **DATE: MAY 24, 2002**

FROM: **SETH STAFFEN** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / SVOA / OVG**
CTO 184 – CSS PANAMA CITY
SDG: F12899

SAMPLES: 5/Aqueous/VOA/SVOA/OVG

13GLM0201	13GLM02D01	13GLM02S01
13GLM18D01	13GLM18I01	

OVERVIEW

The sample set for CTO 184, SDG: F12899, CSS Panama City; Florida consists of five (5) aqueous environmental samples. The samples were analyzed for Target Compound List (TCL) volatile organic compounds, TCL semivolatile organic compounds, methane, ethane, and ethene. No field duplicate pairs were included in this SDG.

The samples were collected by Tetra Tech, NUS on April 12, 2002 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Methods 8260B, 8270C, and RSK-145/175 analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- * Data completeness
- * Holding times
- * GC/MS Tuning
- Initial and continuing calibration
- * Blank results
- Surrogate spike recoveries
- * Internal standard recoveries
- Blank Spike/Blank Spike Duplicate Results
- Matrix Spike/Matrix Spike Duplicate Results
- * Detection Limits
- * Compound Quantitation
- * Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

VOLATILE FRACTION

Despite the absence of acetone in the laboratory method blank, acetone is a common laboratory contaminant. Therefore, the presence of acetone in environmental samples is a possible laboratory contaminant. The reporting limit used for environmental samples was 5 ug/L and the reporting limit used for the method blank was 50 ug/L.

The Matrix Spike(MS)/Matrix Spike Duplicate (MSD) %Rs were greater than the upper quality control limit for chloroform. No qualification action was taken because chloroform was nondetected in the unspiked sample, 13GLM0201.

SEMIVOLATILE FRACTION

The initial calibration on 04/11/02 contained a %RSD that was greater than the 30% quality control limit for benzaldehyde. No qualification action was taken because the reported results were nondetects.

The blank spike %Rs fell below the lower quality control limit for 2-chlorophenol, 4-chloro-3-methylphenol, 2,4-dichlorophenol, 4,6-dinitro-2-methylphenol, 2-nitrophenol, 4-nitrophenol, pentachlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, and was zero for 2,4-dinitrophenol for batch SW527. The blank spike was re-analyzed under batch SW528 and yielded similar results: %Rs fell below the lower quality control limit for 2-chlorophenol, 2,4-dichlorophenol, 4,6-dinitro-2-methylphenol, 2-nitrophenol, 4-nitrophenol, pentachlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, and was zero for 2,4-dinitrophenol for batch SW528. All associated samples were re-extracted (outside of holding time quality control limits) to confirm results. The re-extracted blank spike was within quality control limits and all sample results were confirmed. No qualification action was taken since the MS/MSD %Rs were compliant for the aforementioned compounds.

OVG FRACTION

The continuing calibration on 04/22/02 at 0401 contained a %D that was greater than the 15% quality control limit for methane. Positive and nondetected results were qualified as estimated, J, and, UJ, respectively, in samples 13GLM0201, 13GLM02D01, 13GLM02S01, and 13GLM18D01.

The continuing calibration on 04/25/02 at 1623 contained %Ds that were greater than the 15% quality control limit for methane, ethane, and ethene. Positive and nondetected results were qualified as estimated, J, and, UJ, respectively, for sample 13GLM18I01.

ADDITIONAL COMMENTS

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

One of the bottles for sample 13GLM02S01 was broken. Therefore, re-extraction (because of poor blank spike recoveries) could not be performed.

The following table illustrates differences between the laboratory's Reporting Limit (RL) and the Requested Quantitation Limit (RQL) listed in the Statement of Work (SOW):

Compound	LABORATORY RL	REQUESTED RL
Methylene Chloride	5 ug/L	2 ug/L
Total Xylenes	3 ug/L	1 ug/L
Total 1,2-Dichloroethene	2 ug/L	1 ug/L
Carbon Disulfide	5 ug/L	1 ug/L
Benzaldehyde	25 ug/L	10 ug/L
Acenaphthene	5 ug/L	1 ug/L
Acenaphthylene	5 ug/L	1 ug/L
Anthracene	5 ug/L	1 ug/L
Benzo(a)anthracene	5 ug/L	1 ug/L
Benzo(a)pyrene	5 ug/L	1 ug/L
Benzo(b)fluoranthene	5 ug/L	1 ug/L
Benzo(g,h,i)perylene	5 ug/L	1 ug/L
Benzo(k)fluoranthene	5 ug/L	1 ug/L
Chrysene	5 ug/L	1 ug/L
benzo(a,h)anthracene	5 ug/L	1 ug/L

EXECUTIVE SUMMARY

Laboratory performance: Acetone is a possible laboratory contaminant. The laboratory did not report several results to the requested reporting limits.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Seth Staffen

Environmental Scientist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D	=	MS/MSD Noncompliance
E	=	LCS/LCSD Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	GFAA PDS - GFAA MSA's $r < 0.995$
K	=	ICP Interference - include ICSAB % R's
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	Pest/PCD% between columns for positive results
V	=	Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM0201
samp_date	4/12/02
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	6.7		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM0201
samp_date	4/12/02
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	2.9		
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM02D01
samp_date	4/12/02
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	8.7		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM02D01
samp_date	4/12/02
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM02S01
samp_date	4/12/02
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	9.3		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM02S01
samp_date	4/12/02
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM18D01
samp_date	4/12/02
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	6.3		
1,1-DICHLOROETHENE	8.1		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1.1		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1.6		
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

nsample	13GLM18D01
samp_date	4/12/02
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1.8		
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	1.6	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

nsample	13GLM18I01
samp_date	4/12/02
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROE	1	U	
1,1-DICHLOROETHANE	1		
1,1-DICHLOROETHENE	1.6		
1,2-DIBROMO-3-CHLOROPROP	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5.7		
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DICHLORODIFLUOROMETHAN	1	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OV

nsample	13GLM18I01
samp_date	4/12/02
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHYLBENZENE	1	U	
ISOPROPYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	1	U	
METHYLENE CHLORIDE	5	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPEN	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM0201
samp_date	4/12/2002
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL E	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM0201
samp_date	4/12/2002
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METH	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM0201
samp_date	4/12/2002
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM02D01
samp_date	4/12/2002
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5.5	U	
1-METHYLNAPHTHALENE	5.5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5.5	U	
2,4,5-TRICHLOROPHENOL	5.5	U	
2,4,6-TRICHLOROPHENOL	5.5	U	
2,4-DICHLOROPHENOL	5.5	U	
2,4-DIMETHYLPHENOL	28	U	
2,4-DINITROPHENOL	28	U	
2,4-DINITROTOLUENE	5.5	U	
2,6-DINITROTOLUENE	5.5	U	
2-CHLORONAPHTHALENE	5.5	U	
2-CHLOROPHENOL	5.5	U	
2-METHYLNAPHTHALENE	5.5	U	
2-METHYLPHENOL	5.5	U	
2-NITROANILINE	5.5	U	
2-NITROPHENOL	5.5	U	
3&4-METHYLPHENOL	5.5	U	
3,3'-DICHLOROBENZIDINE	11	U	
3-NITROANILINE	5.5	U	
4,6-DINITRO-2-METHYLPHENO	11	U	
4-BROMOPHENYL PHENYL ET	5.5	U	
4-CHLORO-3-METHYLPHENOL	5.5	U	
4-CHLOROANILINE	5.5	U	
4-CHLOROPHENYL PHENYL E	5.5	U	
4-NITROANILINE	5.5	U	
4-NITROPHENOL	28	U	
ACENAPHTHENE	5.5	U	
ACENAPHTHYLENE	5.5	U	
ACETOPHENONE	5.5	U	
ANTHRACENE	5.5	U	

nsample	13GLM02D01
samp_date	4/12/2002
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5.5	U	
BENZALDEHYDE	28	U	
BENZO(A)ANTHRACENE	5.5	U	
BENZO(A)PYRENE	5.5	U	
BENZO(B)FLUORANTHENE	5.5	U	
BENZO(G,H,I)PERYLENE	5.5	U	
BENZO(K)FLUORANTHENE	5.5	U	
BIS(2-CHLOROETHOXY)METH	5.5	U	
BIS(2-CHLOROETHYL)ETHER	5.5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5.5	U	
BUTYL BENZYL PHTHALATE	5.5	U	
CAPROLACTAM	5.5	U	
CARBAZOLE	5.5	U	
CHRYSENE	5.5	U	
DI-N-BUTYL PHTHALATE	5.5	U	
DI-N-OCTYL PHTHALATE	5.5	U	
DIBENZO(A,H)ANTHRACENE	5.5	U	
DIBENZOFURAN	5.5	U	
DIETHYL PHTHALATE	5.5	U	
DIMETHYL PHTHALATE	5.5	U	
FLUORANTHENE	5.5	U	
FLUORENE	5.5	U	
HEXACHLOROBUTADIENE	5.5	U	
HEXACHLOROCYCLOPENTADI	5.5	U	
HEXACHLOROETHANE	5.5	U	
INDENO(1,2,3-CD)PYRENE	5.5	U	
N-NITROSO-DI-N-PROPYLAMIN	5.5	U	
N-NITROSODIPHENYLAMINE	5.5	U	
NAPHTHALENE	5.5	U	
NITROBENZENE	5.5	U	

nsample	13GLM02D01
samp_date	4/12/2002
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	28	U	
PHENANTHRENE	5.5	U	
PHENOL	5.5	U	
PYRENE	5.5	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM02S01
samp_date	4/12/2002
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL E	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM02S01
samp_date	4/12/2002
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METH	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM02S01
samp_date	4/12/2002
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM18D01
samp_date	4/12/2002
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL E	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM18D01
samp_date	4/12/2002
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METH	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	5	U	
NITROBENZENE	5	U	

nsample	13GLM18D01
samp_date	4/12/2002
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OS

nsample	13GLM18I01
samp_date	4/12/2002
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1,1-BIPHENYL	5	U	
1-METHYLNAPHTHALENE	5	U	
2,2'-OXYBIS(1-CHLOROPROPA	5	U	
2,4,5-TRICHLOROPHENOL	5	U	
2,4,6-TRICHLOROPHENOL	5	U	
2,4-DICHLOROPHENOL	5	U	
2,4-DIMETHYLPHENOL	25	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	5	U	
2,6-DINITROTOLUENE	5	U	
2-CHLORONAPHTHALENE	5	U	
2-CHLOROPHENOL	5	U	
2-METHYLNAPHTHALENE	5	U	
2-METHYLPHENOL	5	U	
2-NITROANILINE	5	U	
2-NITROPHENOL	5	U	
3&4-METHYLPHENOL	5	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	5	U	
4,6-DINITRO-2-METHYLPHENO	10	U	
4-BROMOPHENYL PHENYL ET	5	U	
4-CHLORO-3-METHYLPHENOL	5	U	
4-CHLOROANILINE	5	U	
4-CHLOROPHENYL PHENYL E	5	U	
4-NITROANILINE	5	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	5	U	
ACENAPHTHYLENE	5	U	
ACETOPHENONE	5	U	
ANTHRACENE	5	U	

nsample	13GLM18I01
samp_date	4/12/2002
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ATRAZINE	5	U	
BENZALDEHYDE	25	U	
BENZO(A)ANTHRACENE	5	U	
BENZO(A)PYRENE	5	U	
BENZO(B)FLUORANTHENE	5	U	
BENZO(G,H,I)PERYLENE	5	U	
BENZO(K)FLUORANTHENE	5	U	
BIS(2-CHLOROETHOXY)METH	5	U	
BIS(2-CHLOROETHYL)ETHER	5	U	
BIS(2-ETHYLHEXYL)PHTHALAT	5	U	
BUTYL BENZYL PHTHALATE	5	U	
CAPROLACTAM	5	U	
CARBAZOLE	5	U	
CHRYSENE	5	U	
DI-N-BUTYL PHTHALATE	5	U	
DI-N-OCTYL PHTHALATE	5	U	
DIBENZO(A,H)ANTHRACENE	5	U	
DIBENZOFURAN	5	U	
DIETHYL PHTHALATE	5	U	
DIMETHYL PHTHALATE	5	U	
FLUORANTHENE	5	U	
FLUORENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXACHLOROCYCLOPENTADI	5	U	
HEXACHLOROETHANE	5	U	
INDENO(1,2,3-CD)PYRENE	5	U	
N-NITROSO-DI-N-PROPYLAMIN	5	U	
N-NITROSODIPHENYLAMINE	5	U	
NAPHTHALENE	2.7	J	P
NITROBENZENE	5	U	

nsample	13GLM18I01
samp_date	4/12/2002
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	5	U	
PHENOL	5	U	
PYRENE	5	U	

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM0201
samp_date	4/12/2002
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	0.5	UJ	C

nsample	13GLM02D01
samp_date	4/12/2002
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	1.46	J	C

nsample	13GLM02S01
samp_date	4/12/2002
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	0.5	UJ	C

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: OVG

nsample	13GLM18D01
samp_date	4/12/2002
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	U	
ETHENE	1	U	
METHANE	12.1	J	C

nsample	13GLM18I01
samp_date	4/12/2002
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ETHANE	1	UJ	C
ETHENE	1	UJ	C
METHANE	2.05	J	C

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015955.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	6.7	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	2.9	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015975.D	1	04/17/02	KW	n/a	n/a	VG500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.7	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015962.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	9.3	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015976.D	1	04/17/02	KW	n/a	n/a	VG500
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	1.1	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	6.3	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	8.1	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.6	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	1.6	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.8	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015963.D	1	04/16/02	KW	n/a	n/a	VG498
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	5.7	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.0	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.6	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
Run #2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%	44%	20-125%
4165-62-2	Phenol-d5	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	84%	82%	35-140%
4165-60-0	Nitrobenzene-d5	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	77%	73%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009562.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009597.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2	920 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.5	ug/l	
105-67-9	2,4-Dimethylphenol	ND	28	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	5.5	ug/l	
	3&4-Methylphenol	ND	5.5	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	ug/l	
100-02-7	4-Nitrophenol	ND	28	ug/l	
87-86-5	Pentachlorophenol	ND	28	ug/l	
108-95-2	Phenol	ND	5.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	ug/l	
83-32-9	Acenaphthene	ND	5.5	ug/l	
208-96-8	Acenaphthylene	ND	5.5	ug/l	
98-86-2	Acetophenone	ND	5.5	ug/l	
120-12-7	Anthracene	ND	5.5	ug/l	
1912-24-9	Atrazine	ND	5.5	ug/l	
100-52-7	Benzaldehyde	ND	28	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.5	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.5	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.5	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	ug/l	
105-60-2	Caprolactam	ND	5.5	ug/l	
86-74-8	Carbazole	ND	5.5	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.5	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.5	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.5	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.5	ug/l	
132-64-9	Dibenzofuran	ND	5.5	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.5	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.5	ug/l	
206-44-0	Fluoranthene	ND	5.5	ug/l	
86-73-7	Fluorene	ND	5.5	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.5	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.5	ug/l	
67-72-1	Hexachloroethane	ND	5.5	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.5	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.5	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	ug/l	
91-20-3	Naphthalene	ND	5.5	ug/l	
98-95-3	Nitrobenzene	ND	5.5	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	ug/l	
85-01-8	Phenanthrene	ND	5.5	ug/l	
129-00-0	Pyrene	ND	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%	40%	20-125%
4165-62-2	Phenol-d5	17%	27%	10-125%
118-79-6	2,4,6-Tribromophenol	57%	74%	35-140%
4165-60-0	Nitrobenzene-d5	63%	74%	46-125%
321-60-8	2-Fluorobiphenyl	63%	71%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	77%	79%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009563.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009598.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	42%	20-125%
4165-62-2	Phenol-d5	35%	31%	10-125%
118-79-6	2,4,6-Tribromophenol	85%	74%	35-140%
4165-60-0	Nitrobenzene-d5	86%	77%	46-125%
321-60-8	2-Fluorobiphenyl	80%	77%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	79%	85%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009565.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		20-125%
4165-62-2	Phenol-d5	32%		10-125%
118-79-6	2,4,6-Tribromophenol	85%		35-140%
4165-60-0	Nitrobenzene-d5	78%		46-125%
321-60-8	2-Fluorobiphenyl	74%		46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		49-126%

(a) QC outside of control limits. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W009564.D	1	04/24/02	ME	04/18/02	OP4993	SW528
Run #2	W009599.D	1	04/26/02	ME	04/25/02	OP4993	SW530

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	25	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
98-86-2	Acetophenone	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
1912-24-9	Atrazine	ND	5.0	ug/l	
100-52-7	Benzaldehyde	ND	25	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
105-60-2	Caprolactam	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	2.7	5.0	ug/l	J
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%	54%	20-125%
4165-62-2	Phenol-d5	33%	37%	10-125%
118-79-6	2,4,6-Tribromophenol	86%	90%	35-140%
4165-60-0	Nitrobenzene-d5	85%	87%	46-125%
321-60-8	2-Fluorobiphenyl	79%	88%	46-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	82%	87%	49-126%

(a) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008449.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008456.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	1.46	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008458.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008460.D	1	04/23/02	RA	n/a	n/a	GXY120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	12.1	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY008483.D	1	04/25/02	RA	n/a	n/a	GXY122
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2.05	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

FedEx Airbill 8345252 8692

CHAIN OF CUSTODY

ACCUTEST®

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC	Metals	Dissolved Gases	Cl, SO4, NO2, NO3	TOC
	13GLM02D01	4/12/02		JB	GW	11	X		X		X	3	2	1	3	1	1
	13GLM0201		0930			11	X		X		X	3	2	1	3	1	1
	13GLM0201MS		0930			6	X		X		X	3	2	1	Ø	Ø	Ø
	13GLM0201MD		0930			6	X		X		X	3	2	1	Ø	Ø	Ø
	13GLM02S01		0830			11	X		X		X	3	2	1	3	1	1

LAB USE ONLY

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
	4-12-02	1.	2.		2. Miranda Marpot
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 3.2 C

FEDEX AIRBILL # 8311 5252 8692

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC-1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

CONT'D

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOCs (8260B)	TCL SVOCs/PAHs (8270C)	Select Metals (As, Na, Mg, K, Mn, Ca)	TOC	Anions (NO2, NO3, SO4)	Dissolved Gases						LAB USE ONLY
1 MS	13GLM18I01	4/12/02	8:40	MTA JJ	GW	4	~~7~~	1	1	1	3	3	2	1	1	1	3						
1 MSD	13GLM18D01	↓	9:45	↓	↓	4	~~7~~	1	1	1	3	3	2	1	1	1	3						

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4/12/02	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐

TEMPERATURE 3.2° 5.2° C

Sample Summary

Tetra-Tech, NUS

Job No: F12899

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC-1842

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12899-1	04/12/02	00:00 JB	04/13/02	AQ	Ground Water	13GLM02D01
F12899-2	04/12/02	09:30 JB	04/13/02	AQ	Ground Water	13GLM0201
F12899-3	04/12/02	08:30 JB	04/13/02	AQ	Ground Water	13GLM02S01
F12899-4	04/12/02	08:40 JB	04/13/02	AQ	Ground Water	13GLM18I01
F12899-5	04/12/02	09:45 JB	04/13/02	AQ	Ground Water	13GLM18D01

F12899

HOLDING TIME
05/16/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM0201	F12899-2	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
%	13GLM02D01	GP3127-S2	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
%	13GLM0201	F12899-2DUP	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	ETHA	04/12/02	/ /	04/25/02	0	0	13
%	F12939-1DUP	F12939-1DUP	DUPLICATE	F12899	ETHA	04/25/02	/ /	04/25/02	0	0	0
%	GXY120-BS	GXY120-BS	BSP	F12899	ETHA	04/23/02	/ /	04/23/02	0	0	0
%	GXY122-BS	GXY122-BS	BSP	F12899	ETHA	04/25/02	/ /	04/25/02	0	0	0
UG/L	VBLK1	GXY122-MB	M_BLANK	F12899	ETHA	04/25/02	/ /	04/25/02	0	0	0
%	13GLM0201	F12899-2DUP	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	ETHE	04/12/02	/ /	04/25/02	0	0	13
%	F12939-1DUP	F12939-1DUP	DUPLICATE	F12899	ETHE	04/25/02	/ /	04/25/02	0	0	0
%	GXY120-BS	GXY120-BS	BSP	F12899	ETHE	04/23/02	/ /	04/23/02	0	0	0
%	GXY122-BS	GXY122-BS	BSP	F12899	ETHE	04/25/02	/ /	04/25/02	0	0	0
UG/L	VBLK1	GXY122-MB	M_BLANK	F12899	ETHE	04/23/02	/ /	04/25/02	0	0	2
%	13GLM0201	MP4337-SD1	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
%	13GLM0201	F12899-2DUP	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	METH	04/12/02	/ /	04/25/02	0	0	13
%	F12939-1DUP	F12939-1DUP	DUPLICATE	F12899	METH	04/25/02	/ /	04/25/02	0	0	0
%	GXY120-BS	GXY120-BS	BSP	F12899	METH	04/23/02	/ /	04/23/02	0	0	0
%	GXY122-BS	GXY122-BS	BSP	F12899	METH	04/25/02	/ /	04/25/02	0	0	0
UG/L	VBLK1	GXY122-MB	M_BLANK	F12899	METH	04/23/02	/ /	04/25/02	0	0	2
%	13GLM0201	GP3113-S2	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02D01	F12899-1	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
%	13GLM0201	GP3113-S2	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02D01	F12899-1	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
%	13GLM0201	F12899-2	NORMAL	F12899	OS	04/12/02	04/25/02	04/25/02	13	0	13
%	13GLM02D01	F12899-1	NORMAL	F12899	OS	04/12/02	04/25/02	04/26/02	13	1	14
%	13GLM02S01	F12899-3	NORMAL	F12899	OS	04/12/02	04/25/02	04/26/02	13	1	14
%	13GLM18D01	F12899-5	NORMAL	F12899	OS	04/12/02	04/18/02	04/24/02	6	6	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM18I01	F12899-4	NORMAL	F12899	OS	04/12/02	04/25/02	04/26/02	13	1	14
%	13GLM0201	F12899-2MSD	NORMAL	F12899	OV	04/12/02	/ /	04/16/02	0	0	4
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	OV	04/12/02	/ /	04/17/02	0	0	5
%	13GLM02S01	F12899-3	NORMAL	F12899	OV	04/12/02	/ /	04/16/02	0	0	4
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	OV	04/12/02	/ /	04/17/02	0	0	5
%	13GLM18I01	F12899-4	NORMAL	F12899	OV	04/12/02	/ /	04/16/02	0	0	4
UG/L	VBLK1	VG500-MB	M_BLANK	F12899	OV	04/23/02	/ /	04/17/02	0	0	-6
MG/L	13GLM0201	F12899-2	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
%	13GLM02D01	GP3127-S2	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM0201	F12899-2	DUPLICATE	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM02D01	F12899-1	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834 (CTO-184)
Report Date: May 13, 2002
Job Number: F12899

5 samples were collected on April 12, 2002, and received on April 13, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846-8260B:

- The MS/MSD associated with analytical batch number VG500 had several recoveries above acceptance limits. All RPDs were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number VG498 had one RPD above acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

SVOC, SW846-8270C:

- The Blank Spike associated with analytical batch number SW527 had several recoveries below acceptance limits. The Blank Spike was reanalyzed under batch SW528, with similar results. All associated samples were re-extracted outside of holding time to confirm results. The re-extracted Blank Spike was within acceptance limits and all sample results confirmed. Only the original analysis, extracted within hold, has been reported. All samples have been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch MP4337 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and/or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

General Chemistry: Nitrite

- The MS associated with analytical batch number GP3113/GN9279 had one recovery below acceptance limits. The spike recovery indicates a possible matrix interference and/or sample nonhomogeneity. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. ALSE routinely reports Organic target analytes down to 1/2 the Reporting Level. These positive results are flagged with a "J" qualifier. It is recommended by Accutest

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F12899

Client/Project: Tetra Tech / CSS Panama City

Date/Time Received: 4/13/02 0930 Total Number of Coolers 2

Method of Delivery: FedEx Greyhound UPS Pickup Delivery Other

Air Bill Number: 8311 5252 8692

Cooler Temperatures: 3.2, 5.2

Custody Seals Intact?	YES	NO	
Trip Blank Intact?	YES	NO	NA
Chain of Custody Provided?	YES	NO	
Chain of Custody Match Bottles?	YES	NO	
Sample Labels Present?	YES	NO	
Are All Bottles Unbroken?	YES	NO	
Proper Preservative?	YES	NO	
Correct Containers Used?	YES	NO	
Sufficient Sample Volume?	YES	NO	
Number of Encores			

Comments:

Sample #5 - 1 bottle for SVOC was received broken.

Signature: Miranda Bennett Date: 4/13/02

Rev. 08/28/01 SI

Instrument Performance Check (BFB)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: VG491-BFB
Lab File ID: G0015802.D
Instrument ID: GCMSG
Injection Date: 04/08/02
Injection Time: 11:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	37600	22.7		Pass
75	30.0 - 60.0% of mass 95	86099	52.0		Pass
95	Base peak, 100% relative abundance	165675	100.0		Pass
96	5.0 - 9.0% of mass 95	11417	6.9		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	122307	73.8		Pass
175	5.0 - 9.0% of mass 174	9111	5.5	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	118421	71.5	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	8806	5.3	(7.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG491-IC491	G0015803.D	04/08/02	11:24	00:18	Initial cal 1
VG491-IC491	G0015804.D	04/08/02	11:56	00:50	Initial cal 5
VG491-IC491	G0015805.D	04/08/02	12:27	01:21	Initial cal 20
VG491-ICC491	G0015806.D	04/08/02	12:58	01:52	Initial cal 40
VG491-IC491	G0015807.D	04/08/02	13:30	02:24	Initial cal 70
VG491-IC491	G0015808.D	04/08/02	14:01	02:55	Initial cal 100

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.275	0.275	0.364	0.308	0.289	0.268	0.296	12.11
3)	P	Chloromethane		0.374	0.422	0.389	0.319	0.301	0.361	13.95
4)	C	Vinyl Chloride	0.313	0.327	0.373	0.362	0.289	0.271	0.323	12.40
5)		Bromomethane	0.259	0.233	0.224	0.220	0.172	0.169	0.213	16.72 QR
6)		Chloroethane	0.213	0.199	0.222	0.207	0.170	0.164	0.196	12.01
7)		Trichlorofluorometh	0.356	0.344	0.411	0.394	0.346	0.339	0.365	8.26
8)		Acrolein		0.028	0.031	0.032	0.026	0.025	0.028	10.93
9)	C	1,1-Dichloroethene	0.484	0.434	0.445	0.435	0.374	0.349	0.420	11.81
10)		Freon 113	0.262	0.242	0.273	0.266	0.227	0.208	0.246	10.28
11)		Acetone		0.094	0.103	0.097	0.083	0.078	0.091	11.34
12)		Iodomethane		0.395	0.456	0.412	0.358	0.334	0.391	12.15
13)		Carbon Disulfide	0.839	0.783	0.883	0.810	0.686	0.638	0.773	12.10
14)		Methyl acetate		0.204	0.250	0.201	0.200	0.194	0.210	10.97
15)		Methylene Chloride		0.465	0.436	0.354	0.354	0.334	0.389	14.97
16)		Tert Butyl Alcohol		0.028	0.035	0.028	0.027	0.028	0.029	10.92
17)		trans-1,2-Dichloroe	0.437	0.433	0.462	0.387	0.378	0.356	0.409	10.06
18)		Acrylonitrile		0.088	0.106	0.087	0.084	0.082	0.089	10.38
19)		Methyl Tert Butyl E		0.817	0.955	0.762	0.762	0.721	0.803	11.38
20)		Hexane	0.377	0.360	0.407	0.315	0.330	0.299	0.348	11.67
21)	P	1,1-Dichloroethane	0.518	0.523	0.548	0.448	0.458	0.427	0.487	10.06
22)		Vinyl acetate		0.583	0.614	0.514	0.511	0.477	0.540	10.51
23)		Di-isopropyl ether		1.126	1.041	0.916	0.943	0.866	0.978	10.66
24)		ETBE		1.066	0.923	0.891	0.914	0.856	0.930	8.64
25)		2,2-Dichloropropane		0.346	0.299	0.290	0.282	0.251	0.293	11.69
26)		cis-1,2-Dichloroeth		0.294	0.274	0.264	0.267	0.242	0.268	6.92
27)		2-Butanone		0.127	0.134	0.125	0.126	0.119	0.126	4.15
28)		Bromochloromethane	0.140	0.167	0.154	0.147	0.146	0.140	0.149	6.92
29)		Tetrahydrofuran		0.101	0.094	0.086	0.087	0.083	0.090	7.91
30)	C	Chloroform		0.574	0.504	0.486	0.492	0.450	0.501	9.07
31)		1,1,1-Trichloroetha	0.473	0.441	0.408	0.381	0.390	0.370	0.411	9.60
32)	S	Dibromofluoromethan	0.302	0.303	0.308	0.307	0.311	0.312	0.307	1.40
33)		Cyclohexane		0.475	0.445	0.427	0.441	0.414	0.440	5.26
34)		1,1-Dichloropropene		0.379	0.338	0.323	0.341	0.325	0.341	6.56
35)		Carbon Tetrachlorid	0.352	0.355	0.356	0.348	0.358	0.340	0.351	1.94
36)	S	1,2-Dichloroethane-	0.413	0.408	0.420	0.411	0.414	0.435	0.417	2.33
37)		Benzene		1.045	0.911	0.868	0.886	0.826	0.907	9.15
38)		1,2-Dichloroethane		0.518	0.465	0.454	0.456	0.433	0.465	6.88
39)		TAME		0.893	0.828	0.790	0.803	0.754	0.813	6.38
40)		Trichloroethene		0.308	0.271	0.268	0.276	0.262	0.277	6.52
41)		Methylcyclohexane	0.459	0.423	0.393	0.388	0.396	0.373	0.405	7.68
42)	C	1,2-Dichloropropane		0.323	0.268	0.259	0.264	0.248	0.272	10.80

Average % RSD = 9.40056

(#) = Out of Range

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

		Compound	1	2	3	4	5	6	Avg	%RSD
43)		Dibromomethane	0.230	0.189	0.190	0.184	0.188	0.175	0.193	9.92
44)		1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003	9.91
45)		Bromodichloromethan	0.458	0.402	0.384	0.376	0.405	0.376	0.400	7.76
46)		2-Nitropropane		0.082	0.098	0.099	0.104	0.100	0.097	8.63
47)		2-Chloroethyl vinyl		0.190	0.189	0.179	0.180	0.166	0.181	5.32
48)		4-Methyl-2-pentanon		0.232	0.295	0.274	0.279	0.262	0.269	8.66
49)		cis-1,3-Dichloropro		0.479	0.451	0.437	0.458	0.423	0.450	4.76
50)	I	Chlorobenzene-d5	----------ISTD----------							
51)	S	Toluene-d8	1.264	1.252	1.284	1.267	1.294	1.286	1.274	1.26
52)	C	Toluene		1.441	1.290	1.235	1.272	1.173	1.282	7.74
53)		trans-1,3-Dichlorop	0.678	0.603	0.611	0.561	0.597	0.557	0.601	7.26
54)		1,1,2-Trichloroetha	0.324	0.290	0.287	0.270	0.275	0.262	0.285	7.75
55)		Tetrachloroethene		0.395	0.366	0.347	0.350	0.317	0.355	8.07
56)		2-hexanone		0.253	0.275	0.260	0.268	0.251	0.261	3.88
57)		1,3-Dichloropropane		0.613	0.581	0.541	0.555	0.514	0.561	6.74
58)		Dibromochloromethan	0.419	0.336	0.338	0.338	0.358	0.344	0.356	9.11
59)		1,2-Dibromoethane		0.334	0.330	0.333	0.331	0.317	0.329	2.13
60)		1-Chlorohexane		0.538	0.466	0.450	0.463	0.428	0.469	8.75
61)	P	Chlorobenzene		1.012	0.876	0.838	0.843	0.790	0.872	9.68
62)		1,1,1,2-Tetrachloro	0.415	0.361	0.366	0.333	0.341	0.321	0.356	9.40
63)	C	Ethylbenzene		1.651	1.522	1.428	1.460	1.340	1.480	7.82
64)		m,p-Xylene		1.354	1.259	1.150	1.182	1.075	1.204	8.85
65)		o-Xylene		1.435	1.378	1.250	1.272	1.183	1.303	7.80
66)		Styrene	1.142	1.007	0.975	0.896	0.927	0.873	0.970	10.07
67)	P	Bromoform	0.242	0.178	0.230	0.221	0.246	0.240	0.226	11.17
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)		Isopropylbenzene		2.602	2.485	2.371	2.479	2.360	2.459	4.03
70)		Cyclohexanone		0.025	0.031	0.026	0.030	0.029	0.028	8.64
71)	S	4-Bromofluorobenzen	1.109	1.091	1.076	1.120	1.113	1.156	1.111	2.44
72)		Bromobenzene		0.800	0.730	0.695	0.721	0.674	0.724	6.61
73)	P	1,1,2,2-Tetrachloro		0.806	0.832	0.760	0.788	0.761	0.789	3.90
74)		1,2,3-Trichloroprop		0.240	0.248	0.246	0.244	0.241	0.244	1.52
75)		trans-1,4-Dichloro-		0.311	0.310	0.313	0.323	0.314	0.314	1.64
76)		n-Propylbenzene		3.493	3.227	3.142	3.179	2.950	3.198	6.11
77)		2-Chlorotoluene		2.447	2.121	2.027	2.123	1.980	2.139	8.53
78)		4-Chlorotoluene		2.829	2.452	2.395	2.400	2.288	2.473	8.41
79)		1,3,5-Trimethylbenz		2.450	2.267	2.227	2.231	2.122	2.260	5.29
80)		sec-Butylbenzene	3.182	2.945	2.632	2.593	2.682	2.529	2.760	9.10
81)		1,3-Dichlorobenzene		1.476	1.314	1.283	1.332	1.246	1.330	6.62
82)		4-Isopropyltoluene	2.800	2.489	2.273	2.221	2.307	2.155	2.374	9.98
83)		1,4-Dichlorobenzene		1.463	1.332	1.294	1.356	1.261	1.341	5.74

Average % RSD = 8.20489

(#) = Out of Range

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Initial Calibration

Calibration Files
1 =G0015803.D 2 =G0015804.D 3 =G0015805.D
4 =G0015806.D 5 =G0015807.D 6 =G0015808.D

	Compound	1	2	3	4	5	6	Avg	%RSD
84)	tert-Butylbenzene		1.636	1.552	1.511	1.573	1.458	1.546	4.32
85)	n-Butylbenzene	2.710	2.389	2.297	2.267	2.309	2.205	2.363	7.63
86)	1,2-Dichlorobenzene		1.404	1.272	1.232	1.293	1.218	1.284	5.73
87)	1,2,4-Trimethylbenz		2.576	2.430	2.343	2.355	2.200	2.381	5.76
88)	1,2-Dibromo-3-Chlor		0.138	0.176	0.173	0.188	0.186	0.172	11.70
89)	1,2,4-Trichlorobenz	1.185	1.037	0.982	0.952	0.998	0.893	1.008	9.87
90)	Hexachlorobutadiene	0.455	0.432	0.407	0.402	0.383	0.371	0.409	7.64
91)	Naphthalene		2.243	2.332	2.170	2.249	2.141	2.227	3.36
92)	1,2,3-Trichlorobenz	1.099	0.991	0.894	0.892	0.907	0.854	0.939	9.61

Average % RSD = 8.11251

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040802\G0015809.D
Acq On : 8 Apr 2002 2:57 pm
Sample : ICV491-40
Misc :
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Multiple Level Calibration

KW
4-10-02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	115	0.00
2		Dichlorodifluoromethane	0.296	0.321	-8.4	121	0.00
3	P	Chloromethane	0.361	0.344	4.7	102	0.00
4	C	Vinyl Chloride	0.323	0.311	3.7	99	0.00
5		Bromomethane	0.213	0.177	16.9	93	0.00
6		Chloroethane	0.196	0.187	4.6	104	0.00
7		Trichlorofluoromethane	0.365	0.388	-6.3	114	-0.01
8		Acrolein	0.028	0.035	-25.0#	125	0.00
9	C	1,1-Dichloroethene	0.420	0.417	0.7	111	-0.01
10		Freon 113	0.246	0.253	-2.8	110	0.00
11		Acetone	0.091	0.081	11.0	97	0.00
12		Iodomethane	0.391	0.020	94.9#	6#	0.00
13		Carbon Disulfide	0.773	0.769	0.5	110	-0.01
14		Methyl acetate	0.210	0.202	3.8	116	-0.01
15		Methylene Chloride	0.423	0.370	12.5	121	0.00
16		Tert Butyl Alcohol	0.029	0.028	3.4	117	0.00
17		trans-1,2-Dichloroethene	0.409	0.401	2.0	120	0.00
18		Acrylonitrile	0.089	0.087	2.2	115	-0.01
19		Methyl Tert Butyl Ether	0.803	0.796	0.9	121	0.00
20		Hexane	0.348	0.342	1.7	125	0.00
21	P	1,1-Dichloroethane	0.487	0.478	1.8	123	0.00
22		Vinyl acetate	0.540	0.721	-33.5#	162	0.00
23		Di-isopropyl ether	0.978	0.980	-0.2	124	0.00
24		ETBE	0.930	0.070	92.5#	9#	0.00
25		2,2-Dichloropropane	0.293	0.322	-9.9	128	0.00
26		cis-1,2-Dichloroethene	0.268	0.283	-5.6	124	-0.01
27		2-Butanone	0.126	0.128	-1.6	118	0.00
28		Bromochloromethane	0.149	0.154	-3.4	121	0.00
29		Tetrahydrofuran	0.090	0.087	3.3	116	-0.01
30	C	Chloroform	0.501	0.513	-2.4	122	-0.01
31		1,1,1-Trichloroethane	0.411	0.432	-5.1	131	-0.01
32	S	Dibromofluoromethane	0.307	0.316	-2.9	119	0.00
33		Cyclohexane	0.440	0.483	-9.8	131	0.00
34		1,1-Dichloropropene	0.341	0.381	-11.7	136	0.00
35		Carbon Tetrachloride	0.351	0.389	-10.8	129	0.00
36	S	1,2-Dichloroethane-d4	0.417	0.427	-2.4	120	0.00
37		Benzene	0.907	0.936	-3.2	124	0.00
38		1,2-Dichloroethane	0.465	0.471	-1.3	120	0.00
39		TAME	0.813	0.062	92.4#	9#	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040802\G0015809.D
Acq On : 8 Apr 2002 2:57 pm
Sample : ICV491-40
Misc :
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.290	-4.7	125	0.00
41		Methylcyclohexane	0.405	0.453	-11.9	135	0.00
42	C	1,2-Dichloropropane	0.272	0.279	-2.6	124	0.00
43		Dibromomethane	0.193	0.181	6.2	113	0.00
44		1,4-Dioxane	0.003	0.003	0.0	131	0.00
45		Bromodichloromethane	0.400	0.397	0.8	122	0.00
46		2-Nitropropane	0.097	0.101	-4.1	117	0.00
47		2-Chloroethyl vinyl ether	0.181	0.185	-2.2	119	0.00
48		4-Methyl-2-pentanone	0.269	0.277	-3.0	116	0.00
49		cis-1,3-Dichloropropene	0.450	0.449	0.2	119	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	122	0.00
51	S	Toluene-d8	1.274	1.228	3.6	119	0.00
52	C	Toluene	1.282	1.262	1.6	125	0.00
53		trans-1,3-Dichloropropene	0.601	0.537	10.6	117	0.00
54		1,1,2-Trichloroethane	0.285	0.261	8.4	118	0.00
55		Tetrachloroethene	0.355	0.366	-3.1	129	0.00
56		2-hexanone	0.261	0.244	6.5	115	0.00
57		1,3-Dichloropropane	0.561	0.529	5.7	120	0.00
58		Dibromochloromethane	0.356	0.342	3.9	124	-0.01
59		1,2-Dibromoethane	0.329	0.303	7.9	111	0.00
60		1-Chlorohexane	0.469	0.507	-8.1	138	0.00
61	P	Chlorobenzene	0.872	0.861	1.3	126	0.00
62		1,1,1,2-Tetrachloroethane	0.356	0.338	5.1	124	0.00
63	C	Ethylbenzene	1.480	1.461	1.3	125	0.00
64		m,p-Xylene	1.204	1.187	1.4	126	0.00
65		o-Xylene	1.303	1.259	3.4	123	0.00
66		Styrene	0.970	0.933	3.8	127	0.00
67	P	Bromoform	0.226	0.229	-1.3	127	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
69		Isopropylbenzene	2.459	2.646	-7.6	130	0.00
70		Cyclohexanone	0.028	0.026	7.1	116	0.00
71	S	4-Bromofluorobenzene	1.111	1.140	-2.6	119	0.00
72		Bromobenzene	0.724	0.711	1.8	119	0.00
73	P	1,1,2,2-Tetrachloroethane	0.789	0.753	4.6	116	0.00
74		1,2,3-Trichloropropane	0.244	0.248	-1.6	118	0.00
75		trans-1,4-Dichloro-2-Butene	0.314	0.026	91.7#	10#	0.00
76		n-Propylbenzene	3.198	3.356	-4.9	125	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040802\G0015809.D
Acq On : 8 Apr 2002 2:57 pm
Sample : ICV491-40
Misc :
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Apr 08 14:35:32 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	2.156	-0.8	124	0.00
78	4-Chlorotoluene	2.473	2.462	0.4	120	0.00
79	1,3,5-Trimethylbenzene	2.260	2.326	-2.9	122	0.00
80	sec-Butylbenzene	2.760	2.836	-2.8	128	0.00
81	1,3-Dichlorobenzene	1.330	1.340	-0.8	122	0.00
82	4-Isopropyltoluene	2.374	2.430	-2.4	128	0.00
83	1,4-Dichlorobenzene	1.341	1.331	0.7	120	0.00
84	tert-Butylbenzene	1.546	1.627	-5.2	126	0.00
85	n-Butylbenzene	2.363	2.393	-1.3	123	0.00
86	1,2-Dichlorobenzene	1.284	1.222	4.8	116	0.00
87	1,2,4-Trimethylbenzene	2.381	2.482	-4.2	124	0.00
88	1,2-Dibromo-3-Chloropropane	0.172	0.132	NA 23.3#	89	0.00
89	1,2,4-Trichlorobenzene	1.008	0.808	19.8	99	0.00
90	Hexachlorobutadiene	0.409	0.354	13.4	103	0.00
91	Naphthalene	2.227	1.765	20.7#	95	0.00
92	1,2,3-Trichlorobenzene	0.939	0.743	20.9#	97	0.00

Average % D = 9.65409

0156

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument Performance Check (BFB)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VG498-BFB	**Injection Date:**	04/16/02
Lab File ID:	G0015941.D	**Injection Time:**	08:50
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	28021	22.6	Pass
75	30.0 - 60.0% of mass 95	72856	58.7	Pass
95	Base peak, 100% relative abundance	124176	100.0	Pass
96	5.0 - 9.0% of mass 95	10184	8.2	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	86829	69.9	Pass
175	5.0 - 9.0% of mass 174	7200	5.8 (8.3) [a]	Pass
176	95.0 - 101.0% of mass 174	85413	68.8 (98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6674	5.4 (7.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG498-CC491	G0015943.D	04/16/02	09:57	01:07	Continuing cal 40
VG498-BS	G0015944.D	04/16/02	10:28	01:38	Blank Spike
VG498-MB	G0015945.D	04/16/02	10:59	02:09	Method Blank
ZZZZZZ	G0015946.D	04/16/02	11:30	02:40	(unrelated sample)
ZZZZZZ	G0015947.D	04/16/02	12:02	03:12	(unrelated sample)
ZZZZZZ	G0015948.D	04/16/02	12:33	03:43	(unrelated sample)
ZZZZZZ	G0015949.D	04/16/02	13:04	04:14	(unrelated sample)
F12899-2MS	G0015952.D	04/16/02	14:38	05:48	Matrix Spike
F12899-2MSD	G0015953.D	04/16/02	15:10	06:20	Matrix Spike Duplicate
F12899-2	G0015955.D	04/16/02	16:13	07:23	13GLM0201
VG499-BS	G0015956.D	04/16/02	16:45	07:55	Blank Spike
OP4981-LB	G0015957.D	04/16/02	17:17	08:27	Leachate Blank
F12860-1	G0015958.D	04/16/02	17:49	08:59	(used for QC only; not part of job F12899)
ZZZZZZ	G0015959.D	04/16/02	18:20	09:30	(unrelated sample)
F12860-1MS	G0015960.D	04/16/02	18:52	10:02	Matrix Spike
F12860-1MSD	G0015961.D	04/16/02	19:24	10:34	Matrix Spike Duplicate
F12899-3	G0015962.D	04/16/02	19:55	11:05	13GLM02S01
F12899-4	G0015963.D	04/16/02	20:27	11:37	13GLM18I01

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041602\G0015943.D Vial: 1
Acq On : 16 Apr 2002 9:57 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg498,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

KW
4-17-02

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	90	0.00
2		Dichlorodifluoromethane	0.296	0.303	-2.4	89	0.00
3	P	Chloromethane	0.361	0.365	-1.1	84	0.02
4	C	Vinyl Chloride	0.323	0.298	7.7	74	0.02
5		Bromomethane	0.213	0.190	10.8	78	0.03
6		Chloroethane	0.196	0.186	5.1	81	0.02
7		Trichlorofluoromethane	0.365	0.360	1.4	82	-0.02
8		Acrolein	0.028	0.019	32.1#	53	0.02
9	C	1,1-Dichloroethene	0.420	0.461	-9.8	95	0.00
10		Freon 113	0.246	0.213	13.4	72	0.00
11		Acetone	0.091	0.094	-3.3	88	0.04
12		Iodomethane	0.391	0.403	-3.1	88	0.00
13		Carbon Disulfide	0.773	0.855	-10.6	95	0.00
14		Methyl acetate	0.210	0.217	-3.3	97	0.02
15		Methylene Chloride	0.389	0.444	-14.1	113	0.00
16		Tert Butyl Alcohol	0.029	0.030	-3.4	98	0.09
17		trans-1,2-Dichloroethene	0.409	0.471	-15.2	110	0.00
18		Acrylonitrile	0.089	0.074	16.9	76	0.02
19		Methyl Tert Butyl Ether	0.803	0.838	-4.4	99	0.00
20		Hexane	0.348	0.402	-15.5	115	0.00
21	P	1,1-Dichloroethane	0.487	0.561	-15.2	113	0.00
22		Vinyl acetate	0.540	0.563	-4.3	99	0.02
23		Di-isopropyl ether	0.978	1.053	-7.7	103	0.02
24		ETBE	0.930	0.964	-3.7	97	0.02
25		2,2-Dichloropropane	0.293	0.351	-19.8	109	0.00
26		cis-1,2-Dichloroethene	0.268	0.303	-13.1	104	0.00
27		2-Butanone	0.126	0.131	-4.0	94	0.03
28		Bromochloromethane	0.149	0.161	-8.1	99	0.02
29		Tetrahydrofuran	0.090	0.081	10.0	85	0.03
30	C	Chloroform	0.501	0.578	-15.4	107	0.00
31		1,1,1-Trichloroethane	0.411	0.476	-15.8	112	0.00
32	S	Dibromofluoromethane	0.307	0.323	-5.2	95	0.02
33		Cyclohexane	0.440	0.482	-9.5	101	0.00
34		1,1-Dichloropropene	0.341	0.407	-19.4	113	0.02
35		Carbon Tetrachloride	0.351	0.427	-21.7#	111	0.02
36	S	1,2-Dichloroethane-d4	0.417	0.442	-6.0	97	0.00
37		Benzene	0.907	1.035	-14.1	107	0.02
38		1,2-Dichloroethane	0.465	0.546	-17.4	108	0.02
39		TAME	0.813	0.864	-6.3	98	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041602\G0015943.D Vial: 1
Acq On : 16 Apr 2002 9:57 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg498,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.325	-17.3	109	0.00
41		Methylcyclohexane	0.405	0.456	-12.6	106	0.00
42	C	1,2-Dichloropropane	0.272	0.309	-13.6	107	0.00
43		Dibromomethane	0.193	0.209	-8.3	102	0.00
44		1,4-Dioxane	0.003	0.003	0.0	88	0.08
45		Bromodichloromethane	0.400	0.457	-14.3	109	0.00
46		2-Nitropropane	0.097	0.100	-3.1	90	0.02
47		2-Chloroethyl vinyl ether	0.181	0.197	-8.8	99	0.00
48		4-Methyl-2-pentanone	0.269	0.285	-5.9	94	0.02
49		cis-1,3-Dichloropropene	0.450	0.514	-14.2	106	0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.02
51	S	Toluene-d8	1.274	1.285	-0.9	91	0.02
52	C	Toluene	1.282	1.464	-14.2	107	0.02
53		trans-1,3-Dichloropropene	0.601	0.660	-9.8	106	0.02
54		1,1,2-Trichloroethane	0.285	0.306	-7.4	102	0.02
55		Tetrachloroethene	0.355	0.400	-12.7	104	0.02
56		2-hexanone	0.261	0.268	-2.7	93	0.03
57		1,3-Dichloropropane	0.561	0.622	-10.9	104	0.02
58		Dibromochloromethane	0.356	0.403	-13.2	107	0.00
59		1,2-Dibromoethane	0.329	0.367	-11.6	99	0.02
60		1-Chlorohexane	0.469	0.528	-12.6	106	0.02
61	P	Chlorobenzene	0.872	0.957	-9.7	103	0.00
62		1,1,1,2-Tetrachloroethane	0.356	0.384	-7.9	104	0.02
63	C	Ethylbenzene	1.480	1.677	-13.3	106	0.02
64		m,p-Xylene	1.204	1.278	-6.1	100	0.02
65		o-Xylene	1.303	1.230	5.6	89	0.02
66		Styrene	0.970	0.897	7.5	90	0.00
67	P	Bromoform	0.226	0.218	3.5	89	0.00
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.02
69		Isopropylbenzene	2.459	2.696	-9.6	89	0.02
70		Cyclohexanone	0.028	0.021	25.0#	63	0.02
71	S	4-Bromofluorobenzene	1.111	1.065	4.1	75	0.02
72		Bromobenzene	0.724	0.722	0.3	82	0.02
73	P	1,1,2,2-Tetrachloroethane	0.789	0.831	-5.3	86	0.02
74		1,2,3-Trichloropropane	0.244	0.259	-6.1	83	0.02
75		trans-1,4-Dichloro-2-Butene	0.314	0.203	35.4#	51	0.00
76		n-Propylbenzene	3.198	3.551	-11.0	89	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041602\G0015943.D Vial: 1
Acq On : 16 Apr 2002 9:57 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg498,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	2.225	-4.0	86	0.02
78	4-Chlorotoluene	2.473	2.662	-7.6	87	0.02
79	1,3,5-Trimethylbenzene	2.260	2.540	-12.4	90	0.02
80	sec-Butylbenzene	2.760	2.984	-8.1	90	0.02
81	1,3-Dichlorobenzene	1.330	1.433	-7.7	88	0.02
82	4-Isopropyltoluene	2.374	2.482	-4.5	88	0.02
83	1,4-Dichlorobenzene	1.341	1.431	-6.7	87	0.00
84	tert-Butylbenzene	1.546	1.713	-10.8	89	0.02
85	n-Butylbenzene	2.363	2.677	-13.3	93	0.02
86	1,2-Dichlorobenzene	1.284	1.401	-9.1	89	0.03
87	1,2,4-Trimethylbenzene	2.381	2.581	-8.4	86	0.02
88	1,2-Dibromo-3-Chloropropane	0.172	0.183	-6.4	83	0.00
89	1,2,4-Trichlorobenzene	1.008	1.079	-7.0	89	0.00
90	Hexachlorobutadiene	0.409	0.409	0.0	80	0.02
91	Naphthalene	2.227	2.385	-7.1	86	0.02
92	1,2,3-Trichlorobenzene	0.939	0.989	-5.3	87	0.02

Average % D = 9.5871

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument Performance Check (BFB)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	VG500-BFB	**Injection Date:**	04/17/02
Lab File ID:	G0015969.D	**Injection Time:**	09:41
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27448	24.9		Pass
75	30.0 - 60.0% of mass 95	63888	57.9		Pass
95	Base peak, 100% relative abundance	110371	100.0		Pass
96	5.0 - 9.0% of mass 95	7728	7.0		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	75947	68.8		Pass
175	5.0 - 9.0% of mass 174	6060	5.5	(8.0) [a]	Pass
176	95.0 - 101.0% of mass 174	74104	67.1	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	4839	4.4	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG500-CC491	G0015971.D	04/17/02	10:58	01:17	Continuing cal 40
VG500-BS	G0015972.D	04/17/02	11:29	01:48	Blank Spike
VG500-MB	G0015973.D	04/17/02	12:01	02:20	Method Blank
ZZZZZZ	G0015974.D	04/17/02	12:32	02:51	(unrelated sample)
F12899-1	G0015975.D	04/17/02	13:03	03:22	13GLM02D01
F12899-5	G0015976.D	04/17/02	13:34	03:53	13GLM18D01
ZZZZZZ	G0015978.D	04/17/02	14:36	04:55	(unrelated sample)
F12898-2	G0015979.D	04/17/02	15:07	05:26	(used for QC only; not part of job F12899)
F12898-2MS	G0015980.D	04/17/02	15:38	05:57	Matrix Spike
F12898-2MSD	G0015981.D	04/17/02	16:09	06:28	Matrix Spike Duplicate
ZZZZZZ	G0015983.D	04/17/02	17:12	07:31	(unrelated sample)
F12906-5	G0015984.D	04/17/02	17:43	08:02	(used for QC only; not part of job F12899)
F12906-5DUP	G0015985.D	04/17/02	18:14	08:33	Duplicate
ZZZZZZ	G0015986.D	04/17/02	18:45	09:04	(unrelated sample)
ZZZZZZ	G0015987.D	04/17/02	19:16	09:35	(unrelated sample)
ZZZZZZ	G0015988.D	04/17/02	19:47	10:06	(unrelated sample)
ZZZZZZ	G0015989.D	04/17/02	20:19	10:38	(unrelated sample)
ZZZZZZ	G0015990.D	04/17/02	20:50	11:09	(unrelated sample)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041702\G0015971.D
Acq On : 17 Apr 2002 10:58 am
Sample : CC491-40
Misc : ms1455,vg500,5,,,5,1
MS Integration Params: RTEINT.P

Vial: 1
Operator: KarenW
Inst : MSVOA1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

KW
4-17-02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	87	0.00
2		Dichlorodifluoromethane	0.296	0.309	-4.4	87	0.00
3	P	Chloromethane	0.361	0.352	2.5	79	0.01
4	C	Vinyl Chloride	0.323	0.283	12.4	68	0.00
5		Bromomethane	0.213	0.204	4.2	81	0.02
6		Chloroethane	0.196	0.201	-2.6	84	0.02
7		Trichlorofluoromethane	0.365	0.410	-12.3	91	-0.02
8		Acrolein	0.028	0.019	32.1#	52	0.00
9	C	1,1-Dichloroethene	0.420	0.444	-5.7	89	0.00
10		Freon 113	0.246	0.257	-4.5	84	0.01
11		Acetone	0.091	0.093	-2.2	83	0.01
12		Iodomethane	0.391	0.367	6.1	78	0.00
13		Carbon Disulfide	0.773	0.815	-5.4	88	0.00
14		Methyl acetate	0.210	0.224	-6.7	97	0.00
15		Methylene Chloride	0.389	0.431	-10.8	106	0.00
16		Tert Butyl Alcohol	0.029	0.027	6.9	84	0.04
17		trans-1,2-Dichloroethene	0.409	0.452	-10.5	102	0.00
18		Acrylonitrile	0.089	0.072	19.1	72	0.00
19		Methyl Tert Butyl Ether	0.803	0.838	-4.4	96	0.00
20		Hexane	0.348	0.356	-2.3	98	0.00
21	P	1,1-Dichloroethane	0.487	0.528	-8.4	103	0.00
22		Vinyl acetate	0.540	0.564	-4.4	96	0.01
23		Di-isopropyl ether	0.978	1.013	-3.6	96	0.00
24		ETBE	0.930	0.940	-1.1	92	0.00
25		2,2-Dichloropropane	0.293	0.346	-18.1	104	0.00
26		cis-1,2-Dichloroethene	0.268	0.297	-10.8	98	0.00
27		2-Butanone	0.126	0.133	-5.6	93	0.01
28		Bromochloromethane	0.149	0.158	-6.0	94	0.01
29		Tetrahydrofuran	0.090	0.086	4.4	87	0.01
30	C	Chloroform	0.501	0.557	-11.2	100	0.00
31		1,1,1-Trichloroethane	0.411	0.447	-8.8	102	0.00
32	S	Dibromofluoromethane	0.307	0.310	-1.0	88	0.01
33		Cyclohexane	0.440	0.445	-1.1	91	0.00
34		1,1-Dichloropropene	0.341	0.393	-15.2	106	0.00
35		Carbon Tetrachloride	0.351	0.416	-18.5	104	0.01
36	S	1,2-Dichloroethane-d4	0.417	0.446	-7.0	95	0.01
37		Benzene	0.907	0.988	-8.9	99	0.00
38		1,2-Dichloroethane	0.465	0.553	-18.9	106	0.01
39		TAME	0.813	0.836	-2.8	92	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041702\G0015971.D Vial: 1
Acq On : 17 Apr 2002 10:58 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg500,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Trichloroethene	0.277	0.306	-10.5	100	0.00
41		Methylcyclohexane	0.405	0.425	-4.9	95	0.00
42	C	1,2-Dichloropropane	0.272	0.302	-11.0	101	0.00
43		Dibromomethane	0.193	0.203	-5.2	96	0.00
44		1,4-Dioxane	0.003	0.002	33.3#	72	0.03
45		Bromodichloromethane	0.400	0.442	-10.5	102	0.00
46		2-Nitropropane	0.097	0.108	-11.3	95	0.01
47		2-Chloroethyl vinyl ether	0.181	0.196	-8.3	95	0.00
48		4-Methyl-2-pentanone	0.269	0.295	-9.7	94	0.01
49		cis-1,3-Dichloropropene	0.450	0.504	-12.0	100	0.01
50	I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.01
51	S	Toluene-d8	1.274	1.274	0.0	88	0.01
52	C	Toluene	1.282	1.391	-8.5	99	0.01
53		trans-1,3-Dichloropropene	0.601	0.659	-9.7	103	0.01
54		1,1,2-Trichloroethane	0.285	0.305	-7.0	99	0.01
55		Tetrachloroethene	0.355	0.368	-3.7	93	0.01
56		2-hexanone	0.261	0.280	-7.3	94	0.01
57		1,3-Dichloropropane	0.561	0.614	-9.4	100	0.01
58		Dibromochloromethane	0.356	0.405	-13.8	105	0.00
59		1,2-Dibromoethane	0.329	0.372	-13.1	98	0.01
60		1-Chlorohexane	0.469	0.512	-9.2	100	0.01
61	P	Chlorobenzene	0.872	0.930	-6.7	97	0.00
62		1,1,1,2-Tetrachloroethane	0.356	0.383	-7.6	101	0.01
63	C	Ethylbenzene	1.480	1.628	-10.0	100	0.01
64		m,p-Xylene	1.204	1.340	-11.3	102	0.01
65		o-Xylene	1.303	1.437	-10.3	101	0.01
66		Styrene	0.970	1.037	-6.9	102	0.01
67	P	Bromoform	0.226	0.213	5.8	84	0.01
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.01
69		Isopropylbenzene	2.459	2.598	-5.7	83	0.01
70		Cyclohexanone	0.028	0.020	28.6#	58	0.00
71	S	4-Bromofluorobenzene	1.111	1.098	1.2	75	0.01
72		Bromobenzene	0.724	0.726	-0.3	79	0.01
73	P	1,1,2,2-Tetrachloroethane	0.789	0.832	-5.4	83	0.00
74		1,2,3-Trichloropropane	0.244	0.267	-9.4	82	0.00
75		trans-1,4-Dichloro-2-Butene	0.314	0.206	34.4#	50	0.00
76		n-Propylbenzene	3.198	3.414	-6.8	83	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\041702\G0015971.D Vial: 1
Acq On : 17 Apr 2002 10:58 am Operator: KarenW
Sample : CC491-40 Inst : MSVOA1
Misc : ms1455,vg500,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	2-Chlorotoluene	2.139	2.258	-5.6	85	0.01
78	4-Chlorotoluene	2.473	2.654	-7.3	84	0.01
79	1,3,5-Trimethylbenzene	2.260	2.450	-8.4	84	0.01
80	sec-Butylbenzene	2.760	2.835	-2.7	83	0.01
81	1,3-Dichlorobenzene	1.330	1.361	-2.3	81	0.01
82	4-Isopropyltoluene	2.374	2.421	-2.0	83	0.01
83	1,4-Dichlorobenzene	1.341	1.371	-2.2	81	0.00
84	tert-Butylbenzene	1.546	1.668	-7.9	84	0.01
85	n-Butylbenzene	2.363	2.526	-6.9	85	0.01
86	1,2-Dichlorobenzene	1.284	1.325	-3.2	82	0.01
87	1,2,4-Trimethylbenzene	2.381	2.507	-5.3	81	0.01
88	1,2-Dibromo-3-Chloropropane	0.172	0.198	-15.1	87	0.00
89	1,2,4-Trichlorobenzene	1.008	0.958	5.0	76	0.00
90	Hexachlorobutadiene	0.409	0.392	4.2	74	0.01
91	Naphthalene	2.227	2.277	-2.2	80	0.01
92	1,2,3-Trichlorobenzene	0.939	0.900	4.2	77	0.01

Average % D = 8.35917

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Method Blank Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-MB	G0015945.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-2, F12899-3, F12899-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-MB	G0015945.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-2, F12899-3, F12899-4

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	106%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

Method Blank Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-MB	G0015973.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-1, F12899-5

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
76-13-1	Freon 113	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	

Method Blank Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-MB	G0015973.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-1, F12899-5

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	80-120%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

Volatile Surrogate Recovery Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F12899-1	G0015975.D	103.0	107.0	102.0	96.0
F12899-2	G0015955.D	103.0	107.0	104.0	99.0
F12899-3	G0015962.D	99.0	106.0	102.0	99.0
F12899-4	G0015963.D	102.0	108.0	102.0	99.0
F12899-5	G0015976.D	103.0	106.0	103.0	98.0
F12898-2MS	G0015980.D	104.0	109.0	103.0	97.0
F12898-2MSD	G0015981.D	125.0*	124.0*	102.0	98.0
F12899-2MS	G0015952.D	100.0	107.0	103.0	95.0
F12899-2MSD	G0015953.D	105.0	112.0	105.0	99.0
F12906-5DUP	G0015985.D	126.0*	129.0*	102.0	102.0
VG498-BS	G0015944.D	100.0	105.0	101.0	96.0
VG498-MB	G0015945.D	101.0	106.0	101.0	97.0
VG500-BS	G0015972.D	100.0	104.0	101.0	97.0
VG500-MB	G0015973.D	107.0	104.0	104.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-BS	G0015944.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-2, F12899-3, F12899-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	125	100	67-125
71-43-2	Benzene	25	27.1	108	75-125
75-27-4	Bromodichloromethane	25	21.8	87	75-125
75-25-2	Bromoform	25	25.2	101	72-125
108-90-7	Chlorobenzene	25	26.6	106	75-125
75-00-3	Chloroethane	25	25.0	100	58-136
67-66-3	Chloroform	25	27.0	108	75-125
75-15-0	Carbon disulfide	125	137	110	48-142
56-23-5	Carbon tetrachloride	25	30.4	122	75-136
75-34-3	1,1-Dichloroethane	25	25.9	104	75-125
75-35-4	1,1-Dichloroethylene	25	27.2	109	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	22.4	90	64-125
107-06-2	1,2-Dichloroethane	25	26.8	107	75-125
78-87-5	1,2-Dichloropropane	25	23.3	93	75-125
124-48-1	Dibromochloromethane	25	26.2	105	75-125
75-71-8	Dichlorodifluoromethane	25	28.8	115	48-171
156-59-2	cis-1,2-Dichloroethylene	25	27.0	108	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.2	85	75-125
541-73-1	m-Dichlorobenzene	25	25.3	101	75-125
95-50-1	o-Dichlorobenzene	25	24.9	100	75-125
106-46-7	p-Dichlorobenzene	25	25.7	103	75-125
156-60-5	trans-1,2-Dichloroethylene	25	26.9	108	73-125
540-59-0	1,2-Dichloroethene (total)	50	53.9	108	73-129
10061-02-6	trans-1,3-Dichloropropene	25	23.5	94	75-125
100-41-4	Ethylbenzene	25	28.0	112	68-135
76-13-1	Freon 113	25	27.4	110	75-125
591-78-6	2-Hexanone	125	125	100	68-125
98-82-8	Isopropylbenzene	25	26.8	107	75-125
108-10-1	4-Methyl-2-pentanone	125	110	88	75-125
74-83-9	Methyl bromide	25	23.4	94	59-146
74-87-3	Methyl chloride	25	27.2	109	50-142
75-09-2	Methylene chloride	25	28.1	112	69-125
78-93-3	Methyl ethyl ketone	125	128	102	70-125
1634-04-4	Methyl Tert Butyl Ether	25	25.5	102	75-125
100-42-5	Styrene	25	26.2	105	75-125
71-55-6	1,1,1-Trichloroethane	25	28.2	113	75-132

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG498-BS	G0015944.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-2, F12899-3, F12899-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	23.8	95	75-125
79-00-5	1,1,2-Trichloroethane	25	24.9	100	75-125
127-18-4	Tetrachloroethylene	25	27.5	110	75-126
108-88-3	Toluene	25	26.7	107	75-125
79-01-6	Trichloroethylene	25	22.9	92	75-125
75-69-4	Trichlorofluoromethane	25	28.6	114	55-162
75-01-4	Vinyl chloride	25	26.2	105	60-147
1330-20-7	Xylene (total)	75	81.7	109	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	105%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-BS	G0015972.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-1, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	128	102	67-125
71-43-2	Benzene	25	27.3	109	75-125
75-27-4	Bromodichloromethane	25	22.4	90	75-125
75-25-2	Bromoform	25	25.9	104	72-125
108-90-7	Chlorobenzene	25	26.2	105	75-125
75-00-3	Chloroethane	25	26.2	105	58-136
67-66-3	Chloroform	25	26.9	108	75-125
75-15-0	Carbon disulfide	125	136	109	48-142
56-23-5	Carbon tetrachloride	25	29.7	119	75-136
75-34-3	1,1-Dichloroethane	25	27.3	109	75-125
75-35-4	1,1-Dichloroethylene	25	26.4	106	67-138
96-12-8	1,2-Dibromo-3-chloropropane	25	23.3	93	64-125
107-06-2	1,2-Dichloroethane	25	26.3	105	75-125
78-87-5	1,2-Dichloropropane	25	28.2	113	75-125
124-48-1	Dibromochloromethane	25	26.1	104	75-125
75-71-8	Dichlorodifluoromethane	25	27.7	111	48-171
156-59-2	cis-1,2-Dichloroethylene	25	28.0	112	75-129
10061-01-5	cis-1,3-Dichloropropene	25	21.0	84	75-125
541-73-1	m-Dichlorobenzene	25	24.9	100	75-125
95-50-1	o-Dichlorobenzene	25	24.6	98	75-125
106-46-7	p-Dichlorobenzene	25	25.2	101	75-125
156-60-5	trans-1,2-Dichloroethylene	25	27.2	109	73-125
540-59-0	1,2-Dichloroethene (total)	50	55.2	110	73-129
10061-02-6	trans-1,3-Dichloropropene	25	24.0	96	75-125
100-41-4	Ethylbenzene	25	27.3	109	68-135
76-13-1	Freon 113	25	21.4	86	75-125
591-78-6	2-Hexanone	125	124	99	68-125
98-82-8	Isopropylbenzene	25	26.3	105	75-125
108-10-1	4-Methyl-2-pentanone	125	108	86	75-125
74-83-9	Methyl bromide	25	21.8	87	59-146
74-87-3	Methyl chloride	25	27.1	108	50-142
75-09-2	Methylene chloride	25	26.5	106	69-125
78-93-3	Methyl ethyl ketone	125	127	102	70-125
1634-04-4	Methyl Tert Butyl Ether	25	25.4	102	75-125
100-42-5	Styrene	25	25.8	103	75-125
71-55-6	1,1,1-Trichloroethane	25	27.5	110	75-132

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG500-BS	G0015972.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-1, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	24.9	100	75-125
79-00-5	1,1,2-Trichloroethane	25	25.2	101	75-125
127-18-4	Tetrachloroethylene	25	27.4	110	75-126
108-88-3	Toluene	25	27.3	109	75-125
79-01-6	Trichloroethylene	25	27.7	111	75-125
75-69-4	Trichlorofluoromethane	25	27.8	111	55-162
75-01-4	Vinyl chloride	25	25.2	101	60-147
1330-20-7	Xylene (total)	75	82.5	110	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12899-2MS	G0015952.D	1	04/16/02	KW	n/a	n/a	VG498
F12899-2MSD	G0015953.D	1	04/16/02	KW	n/a	n/a	VG498
F12899-2	G0015955.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-2, F12899-3, F12899-4

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	6.7		125	115	87	131	99	13	61-125/15
71-43-2	Benzene	ND		25	25.2	101	25.0	100	1	75-125/15
75-27-4	Bromodichloromethane	ND		25	25.4	102	25.8	103	2	75-125/15
75-25-2	Bromoform	ND		25	24.0	96	25.0	100	4	66-125/15
108-90-7	Chlorobenzene	ND		25	25.6	102	25.2	101	2	75-125/15
75-00-3	Chloroethane	ND		25	23.8	95	24.1	96	1	53-125/15
67-66-3	Chloroform	ND		25	26.1	104	26.2	105	0	75-125/15
75-15-0	Carbon disulfide	ND		125	123	98	124	99	1	51-138/15
56-23-5	Carbon tetrachloride	ND		25	28.0	112	27.1	108	3	74-131/15
75-34-3	1,1-Dichloroethane	ND		25	24.8	99	25.1	100	1	75-125/15
75-35-4	1,1-Dichloroethylene	ND		25	23.6	94	24.2	97	3	66-140/15
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.3	101	23.9	96	6	57-125/15
107-06-2	1,2-Dichloroethane	ND		25	26.0	104	27.3	109	5	75-125/15
78-87-5	1,2-Dichloropropane	ND		25	26.5	106	26.1	104	2	75-125/15
124-48-1	Dibromochloromethane	ND		25	25.2	101	25.8	103	2	75-125/15
75-71-8	Dichlorodifluoromethane	ND		25	26.6	106	26.2	105	2	45-182/15
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.9	104	26.2	105	1	75-136/15
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.5	94	23.9	96	2	71-125/15
541-73-1	m-Dichlorobenzene	ND		25	22.6	90	23.6	94	4	75-125/15
95-50-1	o-Dichlorobenzene	ND		25	22.8	91	23.3	93	2	75-125/15
106-46-7	p-Dichlorobenzene	ND		25	24.0	96	24.7	99	3	75-125/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.5	98	24.3	97	1	73-125/15
540-59-0	1,2-Dichloroethene (total)	ND		50	50.4	101	50.5	101	0	73-136/15
10061-02-6	trans-1,3-Dichloropropene	ND		25	22.2	89	22.9	92	3	62-125/15
100-41-4	Ethylbenzene	ND		25	26.2	105	26.2	105	0	75-125/15
76-13-1	Freon 113	ND		25	21.3	85	25.0	100	16*	69-131/15
591-78-6	2-Hexanone	ND		125	126	101	135	108	7	71-125/15
98-82-8	Isopropylbenzene	ND		25	24.6	98	25.3	101	3	74-125/15
108-10-1	4-Methyl-2-pentanone	ND		125	130	104	141	113	8	75-125/15
74-83-9	Methyl bromide	ND		25	20.0	80	21.2	85	6	67-146/15
74-87-3	Methyl chloride	ND		25	23.1	92	23.0	92	0	47-160/15
75-09-2	Methylene chloride	ND		25	24.2	97	25.2	101	4	69-125/15
78-93-3	Methyl ethyl ketone	ND		125	125	100	137	110	9	70-125/15
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.8	95	24.4	98	2	75-125/15
100-42-5	Styrene	ND		25	24.9	100	24.9	100	0	69-126/15
71-55-6	1,1,1-Trichloroethane	ND		25	26.8	107	27.2	109	1	75-131/15

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12899-2MS	G0015952.D	1	04/16/02	KW	n/a	n/a	VG498
F12899-2MSD	G0015953.D	1	04/16/02	KW	n/a	n/a	VG498
F12899-2	G0015955.D	1	04/16/02	KW	n/a	n/a	VG498

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-2, F12899-3, F12899-4

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.8	95	24.7	99	4	75-125/15
79-00-5	1,1,2-Trichloroethane	ND		25	24.0	96	23.7	95	1	75-125/15
127-18-4	Tetrachloroethylene	ND		25	25.1	100	25.5	102	2	75-125/15
108-88-3	Toluene	ND		25	25.8	103	25.5	102	1	75-125/15
79-01-6	Trichloroethylene	2.9		25	27.6	99	28.7	103	4	75-125/15
75-69-4	Trichlorofluoromethane	ND		25	25.9	104	26.2	105	1	60-139/30
75-01-4	Vinyl chloride	ND		25	20.8	83	22.4	90	7	52-169/15
1330-20-7	Xylene (total)	ND		75	78.7	105	78.5	105	0	75-125/15

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	Limits
1868-53-7	Dibromofluoromethane	100%	105%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	107%	112%	107%	80-120%
2037-26-5	Toluene-D8	103%	105%	104%	80-120%
460-00-4	4-Bromofluorobenzene	95%	99%	99%	80-120%

Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12906-5DUP	G0015985.D	1	04/17/02	KW	n/a	n/a	VG500
F12906-5	G0015984.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-1, F12899-5

CAS No.	Compound	F12906-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	37.3	J	43.1	J	14	15
71-43-2	Benzene	ND		ND		nc	15
75-27-4	Bromodichloromethane	3.1		3.2		3	15
75-25-2	Bromoform	ND		ND		nc	15
108-90-7	Chlorobenzene	ND		ND		nc	15
75-00-3	Chloroethane	ND		ND		nc	15
67-66-3	Chloroform	52.2		60.4		15	15
75-15-0	Carbon disulfide	ND		ND		nc	15
56-23-5	Carbon tetrachloride	ND		ND		nc	15
75-34-3	1,1-Dichloroethane	ND		ND		nc	15
75-35-4	1,1-Dichloroethylene	ND		ND		nc	15
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	15
107-06-2	1,2-Dichloroethane	ND		ND		nc	15
78-87-5	1,2-Dichloropropane	ND		ND		nc	15
124-48-1	Dibromochloromethane	ND		ND		nc	15
75-71-8	Dichlorodifluoromethane	ND		ND		nc	15
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	15
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	15
541-73-1	m-Dichlorobenzene	ND		ND		nc	15
95-50-1	o-Dichlorobenzene	ND		ND		nc	15
106-46-7	p-Dichlorobenzene	ND		ND		nc	15
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	15
540-59-0	1,2-Dichloroethene (total)	ND		ND		nc	15
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	15
100-41-4	Ethylbenzene	ND		ND		nc	15
76-13-1	Freon 113	ND		ND		nc	15
591-78-6	2-Hexanone	ND		ND		nc	15
98-82-8	Isopropylbenzene	ND		ND		nc	15
108-10-1	4-Methyl-2-pentanone	ND		ND		nc	15
74-83-9	Methyl bromide	ND		ND		nc	15
74-87-3	Methyl chloride	ND		ND		nc	15
75-09-2	Methylene chloride	ND		ND		nc	15
78-93-3	Methyl ethyl ketone	ND		ND		nc	15
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	15
100-42-5	Styrene	ND		ND		nc	15
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	15

Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12906-5DUP	G0015985.D	1	04/17/02	KW	n/a	n/a	VG500
F12906-5	G0015984.D	1	04/17/02	KW	n/a	n/a	VG500

The QC reported here applies to the following samples: **Method:** SW846 8260B

F12899-1, F12899-5

CAS No.	Compound	F12906-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	15
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	15
127-18-4	Tetrachloroethylene	0.99	J	1.1	J	11	15
108-88-3	Toluene	ND		ND		nc	15
79-01-6	Trichloroethylene	ND		ND		nc	15
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	15
1330-20-7	Xylene (total)	ND		ND		nc	15

CAS No.	Surrogate Recoveries	DUP	F12906-5	Limits
1868-53-7	Dibromofluoromethane	126%*	108%	80-120%
17060-07-0	1,2-Dichloroethane-D4	129%*	109%	80-120%
2037-26-5	Toluene-D8	102%	102%	80-120%
460-00-4	4-Bromofluorobenzene	102%	99%	80-120%

TETRA TECH NUS, INC. **CALCULATION WORKSHEET**

CLIENT: CSS Panama City		JOB NUMBER: F12899	
SUBJECT: VOA			
BASED ON: 8260		DRAWING NUMBER:	
BY: SCS	CHECKED BY:	APPROVED BY: JAJ	DATE: 5-24-02

1,1-Dichloroethene 8.1 ug/L

136LM[redacted]8D01 (F12899-5)

$$\frac{(77443 \text{ area})(250 \text{ ng})}{(1133947 \text{ area})(.420)(5 \text{ ml})} = 8.13 \text{ ng/ml}$$

$$= 8.13 \text{ ug/L}$$

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041702\G0015976.D Vial: 6
Acq On : 17 Apr 2002 1:34 pm Operator: KarenW
Sample : F12899-5 Inst : MSVOA1
Misc : ms1455,vg500,5,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 18 8:24 2002 Quant Results File: 624.RES

Quant Method : C:\HPCHEM\1\METHODS\624.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Apr 09 15:05:14 2002
Response via : Initial Calibration
DataAcq Meth : 624

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	7.80	96	1133947	50.00 ug/L	0.02
50) Chlorobenzene-d5	12.88	117	833504	50.00 ug/L	0.01
68) 1,4-Dichlorobenzene-d4	17.29	152	467498	50.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane	6.77	113	360339	51.73 ug/L	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.46%		
36) 1,2-Dichloroethane-d4	7.27	65	501338	53.06 ug/L	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.12%		
51) Toluene-d8	10.35	98	1089692	51.29 ug/L	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.58%		
71) 4-Bromofluorobenzene	15.07	95	509594	49.06 ug/L	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.12%		
Target Compounds					Qvalue
9) 1,1-Dichloroethene	3.62	61	77443	8.13 ug/L	86
21) 1,1-Dichloroethane	5.22	63	69223	6.27 ug/L	92
26) cis-1,2-Dichloroethene	6.06	96	9925	1.63 ug/L #	70
37) Benzene	7.37	78	21808	1.06 ug/L	80
63) Ethylbenzene	13.14	91	45333	1.84 ug/L	96

(#) = qualifier out of range (m) = manual integration

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	101591	48.1		Pass
68	Less than 2.0% of mass 69	218	0.1	(0.29) [a]	Pass
69	Mass 69 relative abundance	74456	35.3		Pass
70	Less than 2.0% of mass 69	377	0.18	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	92498	43.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	211051	100.0		Pass
199	5.0 - 9.0% of mass 198	14373	6.8		Pass
275	10.0 - 30.0% of mass 198	45157	21.4		Pass
365	1.0 - 100.0% of mass 198	4255	2.0		Pass
441	Present, but less than mass 443	28291	13.4	(76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	187979	89.1		Pass
443	17.0 - 23.0% of mass 442	36795	17.4	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW518-IC518	W009334.D	04/11/02	09:24	00:21	Initial cal 50
SW518-IC518	W009335.D	04/11/02	09:54	00:51	Initial cal 5
SW518-IC518	W009336.D	04/11/02	10:24	01:21	Initial cal 25
SW518-ICC518	W009337.D	04/11/02	10:55	01:52	Initial cal 75
SW518-IC518	W009338.D	04/11/02	11:25	02:22	Initial cal 100
SW518-IC518	W009339.D	04/11/02	11:56	02:53	Initial cal 125
OP4953-LBS	W009341.D	04/11/02	12:57	03:54	Blank Spike
OP4953-LB	W009342.D	04/11/02	13:27	04:24	Leachate Blank
F12794-1	W009343.D	04/11/02	13:58	04:55	(used for QC only; not part of job F12899)
OP4953-MS	W009344.D	04/11/02	14:29	05:26	Matrix Spike
OP4953-MSD	W009345.D	04/11/02	14:59	05:56	Matrix Spike Duplicate
OP4900-MB	W009346.D	04/11/02	15:31	06:28	Method Blank
ZZZZZZ	W009347.D	04/11/02	16:01	06:58	(unrelated sample)
ZZZZZZ	W009348.D	04/11/02	16:32	07:29	(unrelated sample)
OP4948-BS	W009349.D	04/11/02	17:02	07:59	Blank Spike
OP4948-MB	W009350.D	04/11/02	17:32	08:29	Method Blank
F12806-1	W009351.D	04/11/02	18:02	08:59	(used for QC only; not part of job F12899)
OP4948-MS	W009352.D	04/11/02	18:33	09:30	Matrix Spike
OP4948-MSD	W009353.D	04/11/02	19:03	10:00	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW518-DFTPP	**Injection Date:**	04/11/02
Lab File ID:	W009333.D	**Injection Time:**	09:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W009354.D	04/11/02	19:33	10:30	(unrelated sample)
ZZZZZZ	W009355.D	04/11/02	20:04	11:01	(unrelated sample)
ZZZZZZ	W009356.D	04/11/02	20:34	11:31	(unrelated sample)

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
2)		1,4-Dioxane	0.381	0.442	0.441	0.464	0.481	0.460	0.445	7.79
3)		N-nitrosodimethylam		0.353	0.497	0.618	0.675	0.648	0.558	23.93
4)		Pyridine	0.817	0.966	0.970	1.055	1.139	1.102	1.008	11.55
5)		Benzaldehyde		0.758	0.520	0.440	0.416	0.374	0.502	30.47
6)		Aniline	1.602	1.692	1.543	1.429	1.467	1.297	1.505	9.22
7)	S	2-Fluorophenol	1.358	1.321	1.202	1.147	1.149	1.064	1.207	9.32
8)		bis(2-Chloroethyl)e	1.301	1.327	1.259	1.257	1.239	1.215	1.266	3.25
9)	S	Phenol-d5	1.718	1.585	1.444	1.359	1.374	1.261	1.457	11.47
10)	C	Phenol	1.910	1.788	1.606	1.478	1.466	1.345	1.599	13.39
11)		2-Chlorophenol	1.521	1.447	1.381	1.353	1.371	1.289	1.394	5.76
12)		1,3-Dichlorobenzene	1.745	1.632	1.469	1.452	1.461	1.377	1.523	9.02
13)	C	1,4-Dichlorobenzene	1.700	1.585	1.465	1.418	1.405	1.329	1.484	9.13
14)		1,2-Dichlorobenzene	1.580	1.494	1.393	1.340	1.293	1.221	1.387	9.52
15)		Benzyl alcohol	0.916	0.913	0.843	0.839	0.853	0.788	0.859	5.68
16)		bis(2-chloroisoprop	3.351	3.172	2.836	2.629	2.504	2.341	2.806	13.99
17)		2-Methylphenol	1.312	1.230	1.107	1.100	1.096	1.015	1.143	9.40
18)		Acetophenone	1.855	1.690	1.507	1.427	1.441	1.314	1.539	12.89
19)		Hexachloroethane	0.600	0.585	0.547	0.528	0.525	0.501	0.548	6.94
20)	P	N-Nitroso-di-n-prop	0.929	0.844	0.772	0.743	0.756	0.704	0.792	10.32
21)		3&4-Methylphenol	1.335	1.200	1.071	1.005	1.024	0.931	1.094	13.51
22)	I	Naphthalene-d8	----------	----------	----------	ISTD	----------	----------	----------	
23)	S	Nitrobenzene-d5	0.410	0.386	0.366	0.357	0.353	0.343	0.369	6.72
24)		Nitrobenzene	0.390	0.372	0.347	0.338	0.335	0.322	0.351	7.24
25)		Isophorone	0.697	0.667	0.630	0.609	0.630	0.607	0.640	5.51
26)	C	2-Nitrophenol	0.234	0.225	0.209	0.201	0.207	0.194	0.212	7.06
27)		2,4-Dimethylphenol	0.393	0.370	0.341	0.325	0.324	0.311	0.344	9.19
28)		bis(2-Chloroethoxy)	0.435	0.417	0.392	0.358	0.370	0.354	0.388	8.52
29)		Benzoic Acid		0.211	0.239	0.263	0.273	0.252	0.247	9.71
30)	C	2,4-Dichlorophenol	0.344	0.333	0.311	0.288	0.281	0.265	0.304	10.28
31)		1,2,4-Trichlorobenz	0.346	0.335	0.303	0.294	0.286	0.275	0.306	9.27
32)		Naphthalene	1.130	1.047	0.942	0.907	0.886	0.844	0.959	11.27
33)		4-Chloroaniline	0.402	0.387	0.348	0.322	0.338	0.301	0.350	11.02
34)		2,6-Dichlorophenol	0.346	0.318	0.287	0.268	0.262	0.249	0.288	12.86
35)	C	Hexachlorobutadiene	0.209	0.198	0.179	0.169	0.162	0.154	0.179	11.89
36)		Caprolactam	0.201	0.192	0.189	0.189	0.209	0.184	0.194	4.70
37)	C	4-Chloro-3-methylph	0.301	0.292	0.273	0.265	0.274	0.250	0.276	6.65
38)		2-Methylnaphthalene	0.740	0.694	0.640	0.619	0.620	0.571	0.647	9.34
39)		1-Methylnaphthalene	0.705	0.665	0.601	0.585	0.585	0.544	0.614	9.66
40)		1,2,4,5-Tetrachloro	0.328	0.303	0.273	0.253	0.256	0.237	0.275	12.59
41)	I	Acenaphthene-d10	----------	----------	----------	ISTD	----------	----------	----------	

(#) = Out of Range Average % RSD = 10.2642

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
42)	P	Hexachlorocyclopent	0.216	0.300	0.296	0.295	0.293	0.291	0.282	11.45
43)	C	2,4,6-Trichlorophen	0.423	0.433	0.403	0.394	0.390	0.386	0.405	4.74
44)		2,4,5-Trichlorophen	0.455	0.456	0.435	0.409	0.404	0.380	0.423	7.22
45)	S	2-Fluorobiphenyl	1.545	1.497	1.374	1.291	1.248	1.218	1.362	9.89
46)		1,1'-Biphenyl	1.670	1.590	1.467	1.387	1.338	1.280	1.455	10.37
47)		2-Chloronaphthalene	1.350	1.314	1.206	1.121	1.067	1.035	1.182	11.02
48)		2-Nitroaniline	0.363	0.374	0.359	0.351	0.354	0.338	0.357	3.43
49)		Acenaphthylene	1.681	1.670	1.537	1.514	1.484	1.420	1.551	6.72
50)		Dimethylphthalate	1.375	1.294	1.240	1.225	1.223	1.170	1.254	5.65
51)		2,6-Dinitrotoluene	0.299	0.302	0.291	0.290	0.294	0.277	0.292	2.96
52)	C	Acenaphthene	1.211	1.168	1.091	1.030	1.016	0.981	1.083	8.39
53)		3-Nitroaniline	0.305	0.338	0.323	0.323	0.322	0.305	0.319	4.00
54)	P	2,4-Dinitrophenol		0.155	0.159	0.173	0.181	0.169	0.167	6.29
55)		Dibenzofuran	1.846	1.673	1.516	1.436	1.382	1.351	1.534	12.49
56)		2,4-Dinitrotoluene	0.389	0.375	0.353	0.333	0.327	0.312	0.348	8.52
57)	P	4-Nitrophenol	0.133	0.149	0.145	0.142	0.148	0.134	0.142	4.79
58)		2,3,4,6-Tetrachloro	0.282	0.300	0.289	0.274	0.276	0.263	0.281	4.56
59)		Fluorene	1.335	1.287	1.188	1.117	1.091	1.022	1.173	10.24
60)		4-Chlorophenyl-phen	0.641	0.603	0.546	0.514	0.490	0.472	0.544	12.16
61)		Diethylphthalate	1.228	1.176	1.112	1.098	1.096	1.014	1.121	6.59
62)		4-Nitroaniline	0.287	0.305	0.293	0.277	0.274	0.250	0.281	6.76
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.176	0.172	0.174	0.179	0.170	0.174	2.06
65)	C	n-Nitrosodiphenylam	0.675	0.658	0.623	0.599	0.596	0.583	0.622	5.94
66)		1,2-Diphenylhydrazi	0.977	0.940	0.890	0.857	0.842	0.808	0.886	7.16
67)	S	2,4,6-Tribromopheno	0.113	0.111	0.106	0.099	0.097	0.095	0.104	7.33
68)		4-Bromophenyl-pheny	0.223	0.230	0.218	0.207	0.201	0.200	0.213	5.92
69)		Hexachlorobenzene	0.241	0.224	0.214	0.201	0.201	0.200	0.213	7.83
70)		Atrazine	0.102	0.101	0.097	0.088	0.091	0.087	0.095	6.89
71)	C	Pentachlorophenol	0.101	0.141	0.143	0.133	0.138	0.132	0.131	11.94
72)		Phenanthrene	1.319	1.231	1.153	1.095	1.064	1.066	1.155	8.87
73)		Anthracene	1.249	1.238	1.160	1.087	1.083	1.059	1.146	7.23
74)		Carbazole	1.220	1.154	1.136	1.040	1.029	0.995	1.095	7.98
75)		Di-n-butylphthalate	1.256	1.313	1.303	1.192	1.204	1.158	1.238	5.08
76)	C	Fluoranthene	1.207	1.139	1.144	1.013	1.033	0.992	1.088	7.98
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine		0.281	0.209	0.152	0.176	0.142	0.192	29.19 OC
79)		Pyrene	1.802	1.905	1.808	1.931	1.909	1.891	1.874	2.95
80)	S	Terphenyl-d14	1.063	1.114	1.085	1.144	1.128	1.115	1.108	2.65
81)		Butylbenzylphthalat	0.651	0.747	0.761	0.801	0.819	0.788	0.761	7.88
82)		3,3'-Dichlorobenzid	0.377	0.386	0.349	0.335	0.325	0.307	0.346	8.74

Average % RSD = 8.98601

(#) = Out of Range

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Apr 11 15:36:59 2002
Response via : Initial Calibration

Calibration Files
5 =W009335.D 25 =W009336.D 50 =W009334.D
75 =W009337.D 100 =W009338.D 125 =W009339.D

		Compound	5	25	50	75	100	125	Avg	%RSD
83)		Benzo[a]anthracene	1.257	1.270	1.303	1.345	1.339	1.306	1.303	2.70
84)		Chrysene	1.277	1.279	1.262	1.306	1.278	1.252	1.276	1.45
85)		bis(2-Ethylhexyl)ph	0.774	0.935	0.950	1.010	1.012	1.005	0.948	9.64
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate	1.741	2.177	2.198	2.258	2.334	2.355	2.177	10.34
88)		Benzo[b]fluoranthen	1.438	1.474	1.432	1.477	1.488	1.452	1.460	1.55
89)		Benzo[k]fluoranthen	1.601	1.570	1.476	1.436	1.451	1.456	1.498	4.63
90)	C	Benzo[a]pyrene	1.261	1.286	1.272	1.267	1.271	1.248	1.267	1.01
91)		Indeno[1,2,3-cd]pyr	0.879	0.933	1.000	0.938	0.970	0.949	0.945	4.29
92)		Dibenz[a,h]anthrace	0.974	1.047	1.064	1.026	1.009	0.997	1.019	3.25
93)		Benzo[g,h,i]perylen	1.122	1.056	1.044	0.998	0.982	0.965	1.028	5.62

Average % RSD = 8.46434

(#) = Out of Range

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW527-DFTPP
Lab File ID: W009519.D
Instrument ID: GCMSW
Injection Date: 04/23/02
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107075	56.6		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	73899	39.1		Pass
70	Less than 2.0% of mass 69	445	0.24	(0.6) [a]	Pass
127	40.0 - 60.0% of mass 198	88685	46.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	189181	100.0		Pass
199	5.0 - 9.0% of mass 198	12887	6.8		Pass
275	10.0 - 30.0% of mass 198	37239	19.7		Pass
365	1.0 - 100.0% of mass 198	3145	1.7		Pass
441	Present, but less than mass 443	20128	10.6	(74.9) [b]	Pass
442	40.0 - 100.0% of mass 198	135587	71.7		Pass
443	17.0 - 23.0% of mass 442	26887	14.2	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW527-CC518	W009520.D	04/23/02	10:22	00:19	Continuing cal 50
OP4979-MB	W009521.D	04/23/02	10:53	00:50	Method Blank
ZZZZZZ	W009522.D	04/23/02	11:22	01:19	(unrelated sample)
ZZZZZZ	W009523.D	04/23/02	11:52	01:49	(unrelated sample)
ZZZZZZ	W009524.D	04/23/02	12:23	02:20	(unrelated sample)
OP4993-BS	W009525.D	04/23/02	12:53	02:50	Blank Spike
OP4993-MB	W009526.D	04/23/02	13:23	03:20	Method Blank
ZZZZZZ	W009527.D	04/23/02	13:53	03:50	(unrelated sample)
ZZZZZZ	W009528.D	04/23/02	14:24	04:21	(unrelated sample)
ZZZZZZ	W009529.D	04/23/02	14:54	04:51	(unrelated sample)
ZZZZZZ	W009530.D	04/23/02	15:24	05:21	(unrelated sample)
ZZZZZZ	W009531.D	04/23/02	15:54	05:51	(unrelated sample)
ZZZZZZ	W009532.D	04/23/02	16:25	06:22	(unrelated sample)
ZZZZZZ	W009533.D	04/23/02	16:54	06:51	(unrelated sample)
ZZZZZZ	W009534.D	04/23/02	17:24	07:21	(unrelated sample)
ZZZZZZ	W009535.D	04/23/02	17:55	07:52	(unrelated sample)
ZZZZZZ	W009536.D	04/23/02	18:25	08:22	(unrelated sample)
ZZZZZZ	W009537.D	04/23/02	18:55	08:52	(unrelated sample)
ZZZZZZ	W009538.D	04/23/02	19:24	09:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW527-DFTPP	**Injection Date:**	04/23/02
Lab File ID:	W009519.D	**Injection Time:**	10:03
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-2	W009539.D	04/23/02	19:55	09:52	13GLM0201
ZZZZZZ	W009542.D	04/23/02	21:25	11:22	(unrelated sample)
ZZZZZZ	W009543.D	04/23/02	21:55	11:52	(unrelated sample)
OP5023-BS	W009549.D	04/24/02	00:55	14:52	Blank Spike
OP5023-MB	W009550.D	04/24/02	01:25	15:22	Method Blank
F12946-11	W009551.D	04/24/02	01:55	15:52	(used for QC only; not part of job F12899)
OP5023-MS	W009552.D	04/24/02	02:24	16:21	Matrix Spike
OP5023-MSD	W009553.D	04/24/02	02:55	16:52	Matrix Spike Duplicate

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042302\W009520.D Vial: 2
Acq On : 23 Apr 2002 10:22 am Operator: marke
Sample : cc518-50 Inst : MSBNA01
Misc : op4979,sw527,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/24/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2		1,4-Dioxane	0.445	0.473	-6.3	123	0.01
3		N-nitrosodimethylamine	0.558	0.550	1.4	127	-0.06
4		Pyridine	1.008	1.010	-0.2	119	-0.06
5		Benzaldehyde	0.502	0.580	-15.5	128	0.00
6		Aniline	1.505	1.480	1.7	110	0.00
7	S	2-Fluorophenol	1.207	1.226	-1.6	117	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.267	-0.1	115	0.00
9	S	Phenol-d5	1.457	1.438	1.3	114	-0.01
10	C	Phenol	1.599	1.578	1.3	112	0.00
11		2-Chlorophenol	1.394	1.376	1.3	114	0.00
12		1,3-Dichlorobenzene	1.523	1.543	-1.3	120	0.00
13	C	1,4-Dichlorobenzene	1.484	1.504	-1.3	118	0.00
14		1,2-Dichlorobenzene	1.387	1.423	-2.6	117	0.00
15		Benzyl alcohol	0.859	0.864	-0.6	117	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.973	-6.0	120	0.00
17		2-Methylphenol	1.143	1.117	2.3	116	0.00
18		Acetophenone	1.539	1.445	6.1	110	-0.01
19		Hexachloroethane	0.548	0.547	0.2	115	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.737	6.9	109	0.00
21		3&4-Methylphenol	1.094	1.033	5.6	110	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
23	S	Nitrobenzene-d5	0.369	0.363	1.6	113	0.00
24		Nitrobenzene	0.351	0.351	0.0	115	0.00
25		Isophorone	0.640	0.616	3.8	111	0.00
26	C	2-Nitrophenol	0.212	0.211	0.5	115	0.00
27		2,4-Dimethylphenol	0.344	0.336	2.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.380	2.1	110	0.00
29		Benzoic Acid	0.247	0.254	-2.8	121	0.02
30	C	2,4-Dichlorophenol	0.304	0.304	0.0	111	0.00
31		1,2,4-Trichlorobenzene	0.306	0.303	1.0	114	0.00
32		Naphthalene	0.959	0.953	0.6	115	0.00
33		4-Chloroaniline	0.350	0.338	3.4	111	0.00
34		2,6-Dichlorophenol	0.288	0.281	2.4	112	0.00
35	C	Hexachlorobutadiene	0.179	0.174	2.8	111	0.00
36		Caprolactam	0.194	0.192	1.0	115	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.270	2.2	113	0.00
38		2-Methylnaphthalene	0.647	0.641	0.9	114	0.00
39		1-Methylnaphthalene	0.614	0.601	2.1	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.270	1.8	112	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
42	P	Hexachlorocyclopentadiene	0.282	0.270	4.3	103	0.00
43	C	2,4,6-Trichlorophenol	0.405	0.404	0.2	113	-0.01

44		2,4,5-Trichlorophenol	0.423	0.426	-0.7	111	0.00
45	S	2-Fluorobiphenyl	1.362	1.372	-0.7	113	0.00
46		1,1'-Biphenyl	1.455	1.450	0.3	112	0.00
47		2-Chloronaphthalene	1.182	1.195	-1.1	112	0.00
48		2-Nitroaniline	0.357	0.360	-0.8	113	0.00
49		Acenaphthylene	1.551	1.581	-1.9	116	0.00
50		Dimethylphthalate	1.254	1.230	1.9	112	-0.01
51		2,6-Dinitrotoluene	0.292	0.296	-1.4	115	0.00
52	C	Acenaphthene	1.083	1.074	0.8	111	0.00
53		3-Nitroaniline	0.319	0.325	-1.9	114	0.00
54	P	2,4-Dinitrophenol	0.167	0.160	4.2	114	0.00
55		Dibenzofuran	1.534	1.507	1.8	112	0.00
56		2,4-Dinitrotoluene	0.348	0.343	1.4	110	0.00
57	P	4-Nitrophenol	0.142	0.134	5.6	104	-0.01
58		2,3,4,6-Tetrachlorophenol	0.281	0.274	2.5	107	0.00
59		Fluorene	1.173	1.177	-0.3	112	0.00
60		4-Chlorophenyl-phenylether	0.544	0.543	0.2	112	0.00
61		Diethylphthalate	1.121	1.086	3.1	110	0.00
62		4-Nitroaniline	0.281	0.295	-5.0	114	-0.01
63	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
64		4,6-Dinitro-2-methylphenol	0.174	0.172	1.1	112	-0.03
65	C	n-Nitrosodiphenylamine	0.622	0.635	-2.1	114	-0.01
66		1,2-Diphenylhydrazine	0.886	0.895	-1.0	113	-0.02
67	S	2,4,6-Tribromophenol	0.104	0.103	1.0	108	-0.02
68		4-Bromophenyl-phenylether	0.213	0.213	0.0	109	-0.01
69		Hexachlorobenzene	0.213	0.207	2.8	109	-0.01
70		Atrazine	0.095	0.087	8.4	100	0.00
71	C	Pentachlorophenol	0.131	0.128	2.3	100	0.00
72		Phenanthrene	1.155	1.127	2.4	109	0.00
73		Anthracene	1.146	1.132	1.2	109	0.00
74		Carbazole	1.095	1.074	1.9	106	0.00
75		Di-n-butylphthalate	1.238	1.216	1.8	104	0.01
76	C	Fluoranthene	1.088	1.036	4.8	101	0.01
77	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
78		Benzidine	0.192	0.238	-24.0#	115	-0.02
79		Pyrene	1.874	1.889	-0.8	105	-0.02
80	S	Terphenyl-d14	1.108	1.115	-0.6	103	-0.02
81		Butylbenzylphthalate	0.761	0.768	-0.9	101	0.00
82		3,3'-Dichlorobenzidine	0.346	0.377	-9.0	109	0.00
83		Benzo[a]anthracene	1.303	1.297	0.5	100	0.00
84		Chrysene	1.276	1.267	0.7	101	0.00
85		bis(2-Ethylhexyl)phthalate	0.948	0.983	-3.7	104	0.00
86	I	Perylene-d12	1.000	1.000	0.0	96	0.00
87	C	Di-n-octylphthalate	2.177	2.312	-6.2	101	0.00
88		Benzo[b]fluoranthene	1.460	1.456	0.3	98	-0.01
89		Benzo[k]fluoranthene	1.498	1.509	-0.7	99	-0.02
90	C	Benzo[a]pyrene	1.267	1.281	-1.1	97	0.00
91		Indeno[1,2,3-cd]pyrene	0.945	0.985	-4.2	95	0.00
92		Dibenz[a,h]anthracene	1.019	1.072	-5.2	97	0.00
93		Benzo[g,h,i]perylene	1.028	1.082	-5.3	100	0.00

Average % D = 2.6

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009334.D 8270C.M Tue Apr 23 10:45:48 2002 MSBNA01

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample: SW528-DFTPP
Lab File ID: W009555.D
Instrument ID: GCMSW
Injection Date: 04/24/02
Injection Time: 15:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	97809	57.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	68655	40.1		Pass
70	Less than 2.0% of mass 69	347	0.2	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	79722	46.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	171025	100.0		Pass
199	5.0 - 9.0% of mass 198	11119	6.5		Pass
275	10.0 - 30.0% of mass 198	33556	19.6		Pass
365	1.0 - 100.0% of mass 198	3085	1.8		Pass
441	Present, but less than mass 443	18476	10.8	(78.5) [b]	Pass
442	40.0 - 100.0% of mass 198	122253	71.5		Pass
443	17.0 - 23.0% of mass 442	23527	13.8	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW528-CC518	W009556.D	04/24/02	15:27	00:18	Continuing cal 75
OP4993-BS	W009557.D	04/24/02	15:57	00:48	Blank Spike
OP4993-MB	W009558.D	04/24/02	16:27	01:18	Method Blank
OP4993-MS	W009559.D	04/24/02	16:57	01:48	Matrix Spike
OP4993-MSD	W009560.D	04/24/02	17:28	02:19	Matrix Spike Duplicate
ZZZZZZ	W009561.D	04/24/02	17:58	02:49	(unrelated sample)
F12899-1	W009562.D	04/24/02	18:28	03:19	13GLM02D01
F12899-3	W009563.D	04/24/02	18:58	03:49	13GLM02S01
F12899-4	W009564.D	04/24/02	19:28	04:19	13GLM18I01
F12899-5	W009565.D	04/24/02	19:58	04:49	13GLM18D01

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042402\W009556.D Vial: 2
Acq On : 24 Apr 2002 3:27 pm Operator: marke
Sample : cc518-75 Inst : MSBNA01
Misc : op5023,sw528,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

4/25/02

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.445	0.474	-6.5	88	0.00
3		N-nitrosodimethylamine	0.558	0.542	2.9	75	-0.08
4		Pyridine	1.008	1.044	-3.6	85	-0.07
5		Benzaldehyde	0.502	0.489	2.6	96	-0.01
6		Aniline	1.505	1.410	6.3	85	-0.01
7	S	2-Fluorophenol	1.207	1.175	2.7	88	-0.02
8		bis(2-Chloroethyl)ether	1.266	1.270	-0.3	87	-0.01
9	S	Phenol-d5	1.457	1.382	5.1	88	0.00
10	C	Phenol	1.599	1.524	4.7	89	-0.01
11		2-Chlorophenol	1.394	1.338	4.0	85	-0.01
12		1,3-Dichlorobenzene	1.523	1.471	3.4	87	0.00
13	C	1,4-Dichlorobenzene	1.484	1.450	2.3	88	0.00
14		1,2-Dichlorobenzene	1.387	1.367	1.4	88	-0.01
15		Benzyl alcohol	0.859	0.830	3.4	85	0.00
16		bis(2-chloroisopropyl)ether	2.806	2.782	0.9	91	-0.01
17		2-Methylphenol	1.143	1.082	5.3	85	0.00
18		Acetophenone	1.539	1.385	10.0	84	0.00
19		Hexachloroethane	0.548	0.538	1.8	88	0.00
20	P	N-Nitroso-di-n-propylamine	0.792	0.706	10.9	82	-0.01
21		3&4-Methylphenol	1.094	0.989	9.6	85	0.00
22	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
23	S	Nitrobenzene-d5	0.369	0.361	2.2	85	0.00
24		Nitrobenzene	0.351	0.346	1.4	86	-0.01
25		Isophorone	0.640	0.594	7.2	82	-0.01
26	C	2-Nitrophenol	0.212	0.207	2.4	86	0.00
27		2,4-Dimethylphenol	0.344	0.322	6.4	83	0.00
28		bis(2-Chloroethoxy)methane	0.388	0.363	6.4	85	0.00
29		Benzoic Acid	0.247	0.256	-3.6	82	0.02
30	C	2,4-Dichlorophenol	0.304	0.295	3.0	86	0.00
31		1,2,4-Trichlorobenzene	0.306	0.297	2.9	85	0.00
32		Naphthalene	0.959	0.918	4.3	85	0.00
33		4-Chloroaniline	0.350	0.321	8.3	84	0.00
34		2,6-Dichlorophenol	0.288	0.271	5.9	85	0.00
35	C	Hexachlorobutadiene	0.179	0.169	5.6	84	0.00
36		Caprolactam	0.194	0.180	7.2	80	-0.02
37	C	4-Chloro-3-methylphenol	0.276	0.258	6.5	82	0.00
38		2-Methylnaphthalene	0.647	0.614	5.1	83	0.00
39		1-Methylnaphthalene	0.614	0.575	6.4	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.275	0.257	6.5	85	0.00
41	I	Acenaphthene-d10	1.000	1.000	0.0	79	-0.01

44		2,4,5-Trichlorophenol	0.423	0.419	0.9	81	-0.02	
45	S	2-Fluorobiphenyl	1.362	1.342	1.5	82	-0.02	
46		1,1'-Biphenyl	1.455	1.439	1.1	82	-0.02	
47		2-Chloronaphthalene	1.182	1.193	-0.9	84	-0.02	
48		2-Nitroaniline	0.357	0.360	-0.8	81	-0.02	
49		Acenaphthylene	1.551	1.527	1.5	80	-0.02	
50		Dimethylphthalate	1.254	1.199	4.4	78	-0.02	
51		2,6-Dinitrotoluene	0.292	0.287	1.7	78	-0.01	
52	C	Acenaphthene	1.083	1.056	2.5	81	-0.02	
53		3-Nitroaniline	0.319	0.308	3.4	76	-0.01	
54	P	2,4-Dinitrophenol	0.167	0.152	9.0	70	-0.01	
55		Dibenzofuran	1.534	1.495	2.5	83	-0.01	
56		2,4-Dinitrotoluene	0.348	0.340	2.3	81	-0.01	
57	P	4-Nitrophenol	0.142	0.130	8.5	73	0.00	
58		2,3,4,6-Tetrachlorophenol	0.281	0.266	5.3	77	0.00	
59		Fluorene	1.173	1.141	2.7	81	0.00	
60		4-Chlorophenyl-phenylether	0.544	0.528	2.9	82	0.00	
61		Diethylphthalate	1.121	1.031	8.0	74	0.00	
62		4-Nitroaniline	0.281	0.279	0.7	80	-0.02	
63	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01	
64		4,6-Dinitro-2-methylphenol	0.174	0.164	5.7	73	-0.03	
65	C	n-Nitrosodiphenylamine	0.622	0.612	1.6	78	-0.02	
66		1,2-Diphenylhydrazine	0.886	0.866	2.3	78	-0.03	
67	S	2,4,6-Tribromophenol	0.104	0.100	3.8	77	-0.03	
68		4-Bromophenyl-phenylether	0.213	0.210	1.4	78	-0.02	
69		Hexachlorobenzene	0.213	0.205	3.8	78	-0.02	willreva if detect
70		Atrazine	0.095	0.073	23.2#	63	-0.01	
71	C	Pentachlorophenol	0.131	0.114	13.0	66	-0.01	
72		Phenanthrene	1.155	1.113	3.6	78	-0.01	
73		Anthracene	1.146	1.094	4.5	77	-0.02	
74		Carbazole	1.095	1.049	4.2	78	-0.01	
75		Di-n-butylphthalate	1.238	1.121	9.5	72	0.00	
76	C.	Fluoranthene	1.088	1.006	7.5	76	0.00	
77	I	Chrysene-d12	1.000	1.000	0.0	80	-0.02	
78		Benzidine	0.192	0.132	31.3#	69	-0.03	non target
79		Pyrene	1.874	1.825	2.6	76	-0.04	
80	S	Terphenyl-d14	1.108	1.058	4.5	74	-0.03	
81		Butylbenzylphthalate	0.761	0.714	6.2	72	-0.01	
82		3,3'-Dichlorobenzidine	0.346	0.354	-2.3	85	-0.01	
83		Benzo[a]anthracene	1.303	1.282	1.6	77	-0.01	
84		Chrysene	1.276	1.240	2.8	76	-0.02	
85		bis(2-Ethylhexyl)phthalate	0.948	0.849	10.4	68	0.00	
86	I	Perylene-d12	1.000	1.000	0.0	76	-0.02	
87	C	Di-n-octylphthalate	2.177	1.994	8.4	67	-0.02	
88		Benzo[b]fluoranthene	1.460	1.415	3.1	73	-0.02	
89		Benzo[k]fluoranthene	1.498	1.439	3.9	76	-0.03	
90	C	Benzo[a]pyrene	1.267	1.263	0.3	76	-0.02	
91		Indeno[1,2,3-cd]pyrene	0.945	0.995	-5.3	81	0.00	
92		Dibenz[a,h]anthracene	1.019	1.074	-5.4	80	-0.01	
93		Benzo[g,h,i]perylene	1.028	1.062	-3.3	81	-0.02	

Average % D = 4.8

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009337.D 8270C.M Thu Apr 25 09:01:57 2002 MSBNA01

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW530-DFTPP	**Injection Date:**	04/25/02
Lab File ID:	W009577.D	**Injection Time:**	15:33
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	99158	47.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	70918	33.8		Pass
70	Less than 2.0% of mass 69	410	0.2	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	90603	43.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	209933	100.0		Pass
199	5.0 - 9.0% of mass 198	13726	6.5		Pass
275	10.0 - 30.0% of mass 198	45787	21.8		Pass
365	1.0 - 100.0% of mass 198	4120	2.0		Pass
441	Present, but less than mass 443	29685	14.1	(75.4) [b]	Pass
442	40.0 - 100.0% of mass 198	204309	97.3		Pass
443	17.0 - 23.0% of mass 442	39352	18.7	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW530-CC518	W009578.D	04/25/02	15:51	00:18	Continuing cal 50
OP4993-BS2	W009579.D	04/25/02	16:21	00:48	Blank Spike
OP4993-MB2	W009580.D	04/25/02	16:51	01:18	Method Blank
F12899-2	W009581.D	04/25/02	17:21	01:48	13GLM0201
ZZZZZZ	W009584.D	04/25/02	18:51	03:18	(unrelated sample)
ZZZZZZ	W009585.D	04/25/02	19:20	03:47	(unrelated sample)
ZZZZZZ	W009586.D	04/25/02	19:51	04:18	(unrelated sample)
ZZZZZZ	W009587.D	04/25/02	20:20	04:47	(unrelated sample)
ZZZZZZ	W009588.D	04/25/02	20:50	05:17	(unrelated sample)
ZZZZZZ	W009589.D	04/25/02	21:20	05:47	(unrelated sample)
ZZZZZZ	W009590.D	04/25/02	21:50	06:17	(unrelated sample)
ZZZZZZ	W009591.D	04/25/02	22:20	06:47	(unrelated sample)
ZZZZZZ	W009592.D	04/25/02	22:49	07:16	(unrelated sample)
ZZZZZZ	W009593.D	04/25/02	23:19	07:46	(unrelated sample)
ZZZZZZ	W009594.D	04/25/02	23:49	08:16	(unrelated sample)
ZZZZZZ	W009595.D	04/26/02	00:19	08:46	(unrelated sample)
ZZZZZZ	W009596.D	04/26/02	00:48	09:15	(unrelated sample)
F12899-1	W009597.D	04/26/02	01:18	09:45	13GLM02D01
F12899-3	W009598.D	04/26/02	01:48	10:15	13GLM02S01

Instrument Performance Check (DFTPP)

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW530-DFTPP	**Injection Date:**	04/25/02
Lab File ID:	W009577.D	**Injection Time:**	15:33
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-4	W009599.D	04/26/02	02:18	10:45	13GLM18I01
OP4993-MB	W009600.D	04/26/02	02:48	11:15	Method Blank
ZZZZZZ	W009601.D	04/26/02	03:17	11:44	(unrelated sample)

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042502A\W009578.D
Acq On : 25 Apr 2002 3:51 pm
Sample : cc518-50
Misc : op5034,sw530,1000,,,1,1,water
MS Integration Params: LSCINT.P

Vial: 2
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	-0.02
2		1,4-Dioxane	0.445	0.473	-6.3	130	0.00
3		N-nitrosodimethylamine	0.558	0.493	11.6	120	-0.08
4		Pyridine	1.008	0.997	1.1	125	-0.07
5		Benzaldehyde	0.502	0.595	-18.5	139	-0.02
6		Aniline	1.505	1.508	-0.2	118	-0.02
7	S	2-Fluorophenol	1.207	1.215	-0.7	122	-0.03
8		bis(2-Chloroethyl)ether	1.266	1.297	-2.4	125	-0.02
9	S	Phenol-d5	1.457	1.442	1.0	121	-0.02
10	C	Phenol	1.599	1.595	0.3	120	-0.02
11		2-Chlorophenol	1.394	1.369	1.8	120	-0.02
12		1,3-Dichlorobenzene	1.523	1.520	0.2	125	-0.02
13	C	1,4-Dichlorobenzene	1.484	1.487	-0.2	123	-0.02
14		1,2-Dichlorobenzene	1.387	1.404	-1.2	122	-0.02
15		Benzyl alcohol	0.859	0.858	0.1	123	-0.02
16		bis(2-chloroisopropyl)ether	2.806	2.938	-4.7	126	-0.02
17		2-Methylphenol	1.143	1.139	0.3	125	-0.02
18		Acetophenone	1.539	1.479	3.9	119	-0.02
19		Hexachloroethane	0.548	0.543	0.9	120	-0.01
20	P	N-Nitroso-di-n-propylamine	0.792	0.757	4.4	119	-0.02
21		3&4-Methylphenol	1.094	1.060	3.1	120	-0.01
22	I	Naphthalene-d8	1.000	1.000	0.0	121	-0.01
23	S	Nitrobenzene-d5	0.369	0.369	0.0	122	-0.02
24		Nitrobenzene	0.351	0.354	-0.9	124	-0.02
25		Isophorone	0.640	0.633	1.1	122	-0.02
26	C	2-Nitrophenol	0.212	0.214	-0.9	124	-0.02
27		2,4-Dimethylphenol	0.344	0.341	0.9	121	-0.02
28		bis(2-Chloroethoxy)methane	0.388	0.382	1.5	118	-0.02
29		Benzoic Acid	0.247	0.261	-5.7	132	0.00
30	C	2,4-Dichlorophenol	0.304	0.309	-1.6	121	-0.02
31		1,2,4-Trichlorobenzene	0.306	0.309	-1.0	124	-0.02
32		Naphthalene	0.959	0.956	0.3	123	-0.02
33		4-Chloroaniline	0.350	0.356	-1.7	124	-0.01
34		2,6-Dichlorophenol	0.288	0.287	0.3	122	-0.01
35	C	Hexachlorobutadiene	0.179	0.175	2.2	119	-0.01
36		Caprolactam	0.194	0.203	-4.6	130	-0.03
37	C	4-Chloro-3-methylphenol	0.276	0.278	-0.7	124	-0.01
38		2-Methylnaphthalene	0.647	0.646	0.2	123	0.00
39		1-Methylnaphthalene	0.614	0.621	-1.1	126	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.275	0.275	0.0	122	-0.01
41	I	Acenaphthene-d10	1.000	1.000	0.0	125	[illegible]
42	P	Hexachlorocyclopentadiene	0.282	0.268	5.0	113	-0.03
43	C	2,4,6-Trichlorophenol	0.405	0.407	-0.5	127	-0.03

44		2,4,5-Trichlorophenol	0.423	0.423	0.0	121	-0.03
45	S	2-Fluorobiphenyl	1.362	1.359	0.2	124	-0.03
46		1,1'-Biphenyl	1.455	1.444	0.8	123	-0.03
47		2-Chloronaphthalene	1.182	1.186	-0.3	123	-0.03
48		2-Nitroaniline	0.357	0.363	-1.7	127	-0.03
49		Acenaphthylene	1.551	1.577	-1.7	128	-0.03
50		Dimethylphthalate	1.254	1.273	-1.5	128	-0.03
51		2,6-Dinitrotoluene	0.292	0.294	-0.7	126	-0.02
52	C	Acenaphthene	1.083	1.079	0.4	124	-0.03
53		3-Nitroaniline	0.319	0.334	-4.7	129	-0.02
54	P	2,4-Dinitrophenol	0.167	0.165	1.2	129	-0.02
55		Dibenzofuran	1.534	1.521	0.8	125	-0.02
56		2,4-Dinitrotoluene	0.348	0.349	-0.3	124	-0.02
57	P	4-Nitrophenol	0.142	0.138	2.8	119	-0.03
58		2,3,4,6-Tetrachlorophenol	0.281	0.280	0.4	121	-0.02
59		Fluorene	1.173	1.194	-1.8	126	-0.02
60		4-Chlorophenyl-phenylether	0.544	0.557	-2.4	127	-0.01
61		Diethylphthalate	1.121	1.123	-0.2	126	-0.02
62		4-Nitroaniline	0.281	0.303	-7.8	129	-0.03
63	I	Phenanthrene-d10	1.000	1.000	0.0	129	-0.02
64		4,6-Dinitro-2-methylphenol	0.174	0.169	2.9	126	-0.04
65	C	n-Nitrosodiphenylamine	0.622	0.624	-0.3	129	-0.03
66		1,2-Diphenylhydrazine	0.886	0.845	4.6	122	-0.04
67	S	2,4,6-Tribromophenol	0.104	0.102	1.9	124	-0.04
68		4-Bromophenyl-phenylether	0.213	0.207	2.8	122	-0.03
69		Hexachlorobenzene	0.213	0.207	2.8	125	-0.03
70		Atrazine	0.095	0.084	11.6	112	-0.02
71	C	Pentachlorophenol	0.131	0.121	7.6	109	-0.03
72		Phenanthrene	1.155	1.139	1.4	127	-0.03
73		Anthracene	1.146	1.115	2.7	124	-0.03
74		Carbazole	1.095	1.070	2.3	121	-0.02
75		Di-n-butylphthalate	1.238	1.205	2.7	119	0.00
76	C	Fluoranthene	1.088	1.054	3.1	119	0.00
77	I	Chrysene-d12	1.000	1.000	0.0	120	-0.03
78		Benzidine	0.192	0.237	-23.4#	136	-0.04
79		Pyrene	1.874	1.851	1.2	123	-0.05
80	S	Terphenyl-d14	1.108	1.099	0.8	122	-0.04
81		Butylbenzylphthalate	0.761	0.769	-1.1	121	-0.02
82		3,3'-Dichlorobenzidine	0.346	0.373	-7.8	128	-0.03
83		Benzo[a]anthracene	1.303	1.315	-0.9	121	-0.03
84		Chrysene	1.276	1.290	-1.1	123	-0.04
85		bis(2-Ethylhexyl)phthalate	0.948	0.977	-3.1	123	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	119	-0.03
87	C	Di-n-octylphthalate	2.177	2.188	-0.5	119	-0.03
88		Benzo[b]fluoranthene	1.460	1.433	1.8	119	-0.04
89		Benzo[k]fluoranthene	1.498	1.454	2.9	117	-0.04
90	C	Benzo[a]pyrene	1.267	1.263	0.3	118	-0.03
91		Indeno[1,2,3-cd]pyrene	0.945	0.916	3.1	109	-0.03
92		Dibenz[a,h]anthracene	1.019	1.024	-0.5	115	-0.03
93		Benzo[g,h,i]perylene	1.028	1.004	2.3	115	-0.04

Average % D = 2.5

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W009334.D 8270C.M Thu Apr 25 16:14:55 2002 MSBNA01

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	20.7	41*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	31.1	62*	70-125
120-83-2	2,4-Dichlorophenol	50	22.6	45*	68-125
105-67-9	2,4-Dimethylphenol	50	28.0	56	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	30.7	61	51-125
	3&4-Methylphenol	100	52.1	52	46-125
88-75-5	2-Nitrophenol	50	22.0	44*	64-125
100-02-7	4-Nitrophenol	50	2.8	6*	17-125
87-86-5	Pentachlorophenol	50	11.8	24*	60-125
108-95-2	Phenol	50	13.5	27	16-125
95-95-4	2,4,5-Trichlorophenol	50	23.2	46*	74-125
88-06-2	2,4,6-Trichlorophenol	50	20.0	40*	70-125
83-32-9	Acenaphthene	50	44.9	90	70-125
208-96-8	Acenaphthylene	50	52.6	105	75-125
120-12-7	Anthracene	50	50.1	100	75-125
56-55-3	Benzo(a)anthracene	50	50.0	100	75-125
50-32-8	Benzo(a)pyrene	50	51.3	103	75-125
205-99-2	Benzo(b)fluoranthene	50	46.9	94	75-125
191-24-2	Benzo(g,h,i)perylene	50	54.0	108	57-135
207-08-9	Benzo(k)fluoranthene	50	48.2	96	75-125
101-55-3	4-Bromophenyl phenyl ether	50	47.9	96	74-125
85-68-7	Butyl benzyl phthalate	50	49.2	98	38-134
91-58-7	2-Chloronaphthalene	50	46.2	92	59-125
106-47-8	4-Chloroaniline	50	46.3	93	31-125
86-74-8	Carbazole	50	49.2	98	75-125
218-01-9	Chrysene	50	47.9	96	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	43.1	86	64-125
111-44-4	bis(2-Chloroethyl)ether	50	41.9	84	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	45.7	91	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	49.0	98	75-125
121-14-2	2,4-Dinitrotoluene	50	47.9	96	73-125
606-20-2	2,6-Dinitrotoluene	50	49.6	99	75-125
91-94-1	3,3'-Dichlorobenzidine	50	54.0	108	55-125
53-70-3	Dibenzo(a,h)anthracene	50	53.0	106	64-130

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009525.D	1	04/23/02	ME	04/18/02	OP4993	SW527

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	44.6	89	73-125
84-74-2	Di-n-butyl phthalate	50	49.7	99	47-140
117-84-0	Di-n-octyl phthalate	50	49.0	98	52-125
84-66-2	Diethyl phthalate	50	48.5	97	59-125
131-11-3	Dimethyl phthalate	50	48.9	98	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.5	105	71-125
206-44-0	Fluoranthene	50	49.9	100	75-125
86-73-7	Fluorene	50	48.4	97	75-125
87-68-3	Hexachlorobutadiene	50	35.4	71	22-125
77-47-4	Hexachlorocyclopentadiene	50	26.2	52	10-125
67-72-1	Hexachloroethane	50	36.4	73	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	52.8	106	53-130
90-12-0	1-Methylnaphthalene	50	40.4	81	55-125
91-57-6	2-Methylnaphthalene	50	41.0	82	51-125
88-74-4	2-Nitroaniline	50	48.1	96	75-125
99-09-2	3-Nitroaniline	50	48.1	96	62-125
100-01-6	4-Nitroaniline	50	51.3	103	67-125
91-20-3	Naphthalene	50	42.6	85	53-125
98-95-3	Nitrobenzene	50	43.9	88	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	44.4	89	61-125
86-30-6	N-Nitrosodiphenylamine	50	52.3	105	75-125
85-01-8	Phenanthrene	50	46.8	94	75-125
129-00-0	Pyrene	50	46.8	94	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	28%	20-125%
4165-62-2	Phenol-d5	22%	10-125%
118-79-6	2,4,6-Tribromophenol	51%	35-140%
4165-60-0	Nitrobenzene-d5	86%	46-125%
321-60-8	2-Fluorobiphenyl	87%	46-125%
1718-51-0	Terphenyl-d14	98%	49-126%

(a) Recovery within control limits in MS/MSD.

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	23.1	46*	60-125
59-50-7	4-Chloro-3-methyl phenol	50	35.5	71	70-125
120-83-2	2,4-Dichlorophenol	50	25.7	51*	68-125
105-67-9	2,4-Dimethylphenol	50	24.3	49	42-125
51-28-5	2,4-Dinitrophenol	50	ND	0*	10-125
534-52-1	4,6-Dinitro-o-cresol	50	7.3	15*	46-125
95-48-7	2-Methylphenol	50	33.6	67	51-125
	3&4-Methylphenol	100	58.4	58	46-125
88-75-5	2-Nitrophenol	50	25.2	50*	64-125
100-02-7	4-Nitrophenol	50	3.1	6*	17-125
87-86-5	Pentachlorophenol	50	11.3	23*	60-125
108-95-2	Phenol	50	15.0	30	16-125
95-95-4	2,4,5-Trichlorophenol	50	26.3	53*	74-125
88-06-2	2,4,6-Trichlorophenol	50	22.1	44*	70-125
83-32-9	Acenaphthene	50	48.7	97	70-125
208-96-8	Acenaphthylene	50	56.6	113	75-125
120-12-7	Anthracene	50	56.0	112	75-125
56-55-3	Benzo(a)anthracene	50	54.4	109	75-125
50-32-8	Benzo(a)pyrene	50	57.9	116	75-125
205-99-2	Benzo(b)fluoranthene	50	54.2	108	75-125
191-24-2	Benzo(g,h,i)perylene	50	58.2	116	57-135
207-08-9	Benzo(k)fluoranthene	50	54.6	109	75-125
101-55-3	4-Bromophenyl phenyl ether	50	52.6	105	74-125
85-68-7	Butyl benzyl phthalate	50	53.2	106	38-134
91-58-7	2-Chloronaphthalene	50	50.8	102	59-125
106-47-8	4-Chloroaniline	50	52.4	105	31-125
86-74-8	Carbazole	50	55.0	110	75-125
218-01-9	Chrysene	50	52.7	105	75-125
111-91-1	bis(2-Chloroethoxy)methane	50	48.6	97	64-125
111-44-4	bis(2-Chloroethyl)ether	50	47.9	96	62-125
108-60-1	bis(2-Chloroisopropyl)ether	50	50.6	101	60-125
7005-72-3	4-Chlorophenyl phenyl ether	50	52.4	105	75-125
121-14-2	2,4-Dinitrotoluene	50	54.2	108	73-125
606-20-2	2,6-Dinitrotoluene	50	55.0	110	75-125
91-94-1	3,3'-Dichlorobenzidine	50	57.5	115	55-125
53-70-3	Dibenzo(a,h)anthracene	50	57.2	114	64-130

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS [a]	W009557.D	1	04/24/02	ME	04/18/02	OP4993	SW528

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
132-64-9	Dibenzofuran	50	48.7	97	73-125
84-74-2	Di-n-butyl phthalate	50	54.4	109	47-140
117-84-0	Di-n-octyl phthalate	50	51.2	102	52-125
84-66-2	Diethyl phthalate	50	52.2	104	59-125
131-11-3	Dimethyl phthalate	50	52.9	106	24-142
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.7	103	71-125
206-44-0	Fluoranthene	50	55.2	110	75-125
86-73-7	Fluorene	50	52.6	105	75-125
87-68-3	Hexachlorobutadiene	50	39.3	79	22-125
77-47-4	Hexachlorocyclopentadiene	50	30.5	61	10-125
67-72-1	Hexachloroethane	50	40.4	81	23-125
193-39-5	Indeno(1,2,3-cd)pyrene	50	57.1	114	53-130
90-12-0	1-Methylnaphthalene	50	46.0	92	55-125
91-57-6	2-Methylnaphthalene	50	45.7	91	51-125
88-74-4	2-Nitroaniline	50	53.4	107	75-125
99-09-2	3-Nitroaniline	50	54.0	108	62-125
100-01-6	4-Nitroaniline	50	57.0	114	67-125
91-20-3	Naphthalene	50	48.9	98	53-125
98-95-3	Nitrobenzene	50	50.1	100	67-125
621-64-7	N-Nitroso-di-n-propylamine	50	50.7	101	61-125
86-30-6	N-Nitrosodiphenylamine	50	58.1	116	75-125
85-01-8	Phenanthrene	50	53.4	107	75-125
129-00-0	Pyrene	50	52.1	104	67-125

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	30%	20-125%
4165-62-2	Phenol-d5	25%	10-125%
118-79-6	2,4,6-Tribromophenol	56%	35-140%
4165-60-0	Nitrobenzene-d5	98%	46-125%
321-60-8	2-Fluorobiphenyl	96%	46-125%
1718-51-0	Terphenyl-d14	106%	49-126%

(a) Recovery within control limits in MS/MSD.

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-BS2	W009579.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	55%	20-125%
4165-62-2	Phenol-d5	39%	10-125%
118-79-6	2,4,6-Tribromophenol	94%	35-140%
4165-60-0	Nitrobenzene-d5	78%	46-125%
321-60-8	2-Fluorobiphenyl	84%	46-125%
1718-51-0	Terphenyl-d14	99%	49-126%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	89.7	90	83.3	83	7	59-125/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	91.3	91	86.1	86	6	72-125/20
120-83-2	2,4-Dichlorophenol	ND		100	94.5	95	89.3	89	6	65-125/20
105-67-9	2,4-Dimethylphenol	ND		100	57.7	58	57.2	57	1	37-125/20
51-28-5	2,4-Dinitrophenol	ND		100	47.4	47	68.8	69	37	27-125/41
534-52-1	4,6-Dinitro-o-cresol	ND		100	78.1	78	80.2	80	3	54-125/20
95-48-7	2-Methylphenol	ND		100	88.7	89	85.0	85	4	57-125/20
	3&4-Methylphenol	ND		200	174	87	164	82	6	55-125/20
88-75-5	2-Nitrophenol	ND		100	95.1	95	88.5	89	7	67-125/20
100-02-7	4-Nitrophenol	ND		100	57.1	57	59.1	59	3	41-125/23
87-86-5	Pentachlorophenol	ND		100	74.9	75	68.6	69	9	67-126/20
108-95-2	Phenol	ND		100	67.6	68	65.2	65	4	39-125/20
95-95-4	2,4,5-Trichlorophenol	ND		100	99.7	100	91.8	92	8	75-125/20
88-06-2	2,4,6-Trichlorophenol	ND		100	94.3	94	87.7	88	7	70-125/20
83-32-9	Acenaphthene	ND		100	95.5	96	89.3	89	7	74-125/20
208-96-8	Acenaphthylene	ND		100	112	112	105	105	6	75-125/20
120-12-7	Anthracene	ND		100	103	103	97.4	97	6	75-125/20
56-55-3	Benzo(a)anthracene	ND		100	99.6	100	93.8	94	6	75-125/20
50-32-8	Benzo(a)pyrene	ND		100	105	105	99.6	100	5	75-125/20
205-99-2	Benzo(b)fluoranthene	ND		100	98.0	98	94.1	94	4	75-125/20
191-24-2	Benzo(g,h,i)perylene	ND		100	107	107	99.5	100	7	61-125/21
207-08-9	Benzo(k)fluoranthene	ND		100	99.8	100	95.2	95	5	75-125/20
101-55-3	4-Bromophenyl phenyl ether	ND		100	100	100	95.8	96	4	73-125/20
85-68-7	Butyl benzyl phthalate	ND		100	95.8	96	89.8	90	6	66-125/20
91-58-7	2-Chloronaphthalene	ND		100	99.0	99	96.0	96	3	64-125/20
106-47-8	4-Chloroaniline	ND		100	91.1	91	85.1	85	7	44-125/20
86-74-8	Carbazole	ND		100	103	103	96.5	97	7	75-125/20
218-01-9	Chrysene	ND		100	97.8	98	89.8	90	9	75-125/20
111-91-1	bis(2-Chloroethoxy)methane	ND		100	95.6	96	89.6	90	6	62-125/20
111-44-4	bis(2-Chloroethyl)ether	ND		100	94.0	94	89.9	90	4	61-125/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	99.8	100	94.5	95	5	56-125/22
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	99.2	99	93.1	93	6	75-125/20
121-14-2	2,4-Dinitrotoluene	ND		100	99.5	100	94.1	94	6	75-125/20
606-20-2	2,6-Dinitrotoluene	ND		100	102	102	96.7	97	5	75-125/20
91-94-1	3,3'-Dichlorobenzidine	ND		100	99.8	100	90.6	91	10	20-125/29
53-70-3	Dibenzo(a,h)anthracene	ND		100	102	102	95.3	95	7	64-127/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4993-MS	W009559.D	1	04/24/02	ME	04/18/02	OP4993	SW528
OP4993-MSD	W009560.D	1	04/24/02	ME	04/18/02	OP4993	SW528
F12899-2 [a]	W009539.D	1	04/23/02	ME	04/18/02	OP4993	SW527
F12899-2	W009581.D	1	04/25/02	ME	04/25/02	OP4993	SW530

The QC reported here applies to the following samples: **Method:** SW846 8270C

F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

CAS No.	Compound	F12899-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
132-64-9	Dibenzofuran	ND		100	94.9	95	90.0	90	5	73-125/20
84-74-2	Di-n-butyl phthalate	ND		100	98.3	98	93.8	94	5	71-125/20
117-84-0	Di-n-octyl phthalate	ND		100	96.4	96	85.9	86	12	66-125/30
84-66-2	Diethyl phthalate	ND		100	95.4	95	89.0	89	7	64-125/20
131-11-3	Dimethyl phthalate	ND		100	99.6	100	92.4	92	7	32-139/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	101	101	89.2	89	12	74-125/20
206-44-0	Fluoranthene	ND		100	102	102	93.7	94	8	75-125/20
86-73-7	Fluorene	ND		100	102	102	94.2	94	8	75-125/20
87-68-3	Hexachlorobutadiene	ND		100	78.8	79	75.4	75	4	26-125/21
77-47-4	Hexachlorocyclopentadiene	ND		100	58.9	59	72.3	72	20	18-125/27
67-72-1	Hexachloroethane	ND		100	78.3	78	76.5	77	2	22-125/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	105	105	96.5	97	8	54-125/20
90-12-0	1-Methylnaphthalene	ND		100	89.1	89	85.1	85	5	60-125/20
91-57-6	2-Methylnaphthalene	ND		100	90.9	91	84.6	85	7	58-125/20
88-74-4	2-Nitroaniline	ND		100	98.7	99	94.0	94	5	67-125/20
99-09-2	3-Nitroaniline	ND		100	85.0	85	76.0	76	11	53-125/20
100-01-6	4-Nitroaniline	ND		100	100	100	92.3	92	8	63-125/20
91-20-3	Naphthalene	ND		100	94.1	94	91.2	91	3	55-125/20
98-95-3	Nitrobenzene	ND		100	98.2	98	94.1	94	4	63-125/20
621-64-7	N-Nitroso-di-n-propylamine	ND		100	95.1	95	88.9	89	7	58-125/20
86-30-6	N-Nitrosodiphenylamine	ND		100	109	109	102	102	7	75-125/20
85-01-8	Phenanthrene	ND		100	99.0	99	93.1	93	6	75-125/20
129-00-0	Pyrene	ND		100	99.1	99	89.6	90	10	67-125/20

CAS No.	Surrogate Recoveries	MS	MSD	F12899-2	F12899-2	Limits
367-12-4	2-Fluorophenol	79%	74%	49%	44%	20-125%
4165-62-2	Phenol-d5	62%	61%	33%	30%	10-125%
118-79-6	2,4,6-Tribromophenol	97%	89%	84%	82%	35-140%
4165-60-0	Nitrobenzene-d5	95%	88%	78%	71%	46-125%
321-60-8	2-Fluorobiphenyl	94%	87%	77%	73%	46-125%
1718-51-0	Terphenyl-d14	98%	90%	84%	84%	49-126%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT CSS Panama City		JOB NUMBER F12899	
SUBJECT SVOA			
BASED ON 8270		DRAWING NUMBER	
BY SCS	CHECKED BY	APPROVED BY	DATE

13GLM18I07 (F12899-4)

Naphthalene 2.7 ug/L

$$\frac{(60663 \text{ area})(40 \text{ ng})(1000 \text{ ml})}{(935376 \text{ area})(.959)(1000 \text{ ml})(1 \text{ ml})} = 2.7 \text{ ng/ml}$$

$$\boxed{= 2.7 \text{ ug/L}}$$

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042402\W009564.D
Acq On : 24 Apr 2002 7:28 pm
Sample : f12899-4
~~Misc : op4993;sw528,1000,,,1,1,water~~
MS Integration Params: LSCINT.P
Quant Time: Apr 25 9:06 2002

Vial: 10
Operator: marke
Inst : MSBNA01
~~Multiplr: 1.00~~

Quant Results File: 8270C.RES

Quant Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Mon Apr 22 14:04:33 2002
Response via : Initial Calibration
DataAcq Meth : 8270C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.18	152	272033	40.00 ppm	-0.01
22) Naphthalene-d8	6.41	136	935376	40.00 ppm	-0.01
41) Acenaphthene-d10	8.77	164	432929	40.00 ppm	-0.01
63) Phenanthrene-d10	11.30	188	527313	40.00 ppm	-0.02
77) Chrysene-d12	16.23	240	325697	40.00 ppm	-0.02
86) Perylene-d12	18.74	264	205386	40.00 ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.08	112	396482	48.30 ppm	-0.02
Spiked Amount 100.000	Range 20 - 125		Recovery = 48.30%		
9) Phenol-d5	4.88	99	326085	32.91 ppm	-0.03
Spiked Amount 100.000	Range 10 - 125		Recovery = 32.91%		
23) Nitrobenzene-d5	5.68	82	368119	42.62 ppm	-0.02
Spiked Amount 50.000	Range 46 - 125		Recovery = 85.24%		
45) 2-Fluorobiphenyl	7.76	172	585823	39.73 ppm	-0.02
Spiked Amount 50.000	Range 46 - 125		Recovery = 79.46%		
67) 2,4,6-Tribromophenol	10.08	330	117967	86.39 ppm	-0.03
Spiked Amount 100.000	Range 35 - 140		Recovery = 86.39%		
80) Terphenyl-d14	14.33	244	368197	40.80 ppm	-0.03
Spiked Amount 50.000	Range 49 - 126		Recovery = 81.60%		

Target Compounds

					Qvalue
32) Naphthalene	6.43	128	60663	2.70 ppm	99

(#) = qualifier out of range (m) = manual integration
W009564.D 8270C.M Thu Apr 25 09:06:30 2002 MSBNA01

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Initial Calibration

Calibration Files
1 =XY008433.D 2 =XY008434.D 3 =XY008435.D
4 =XY008436.D 5 =XY008437.D 6 =XY008438.D 7 =XY008439.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane		1.008	0.904	0.914	0.925	0.915	0.988	0.942 E4	4.67
2) Ethylene	1.642	1.831	1.758	1.775	1.780	1.755	1.879	1.774 E4	4.15
3) Ethane	1.618	1.771	1.728	1.762	1.770	1.788	1.910	1.764 E4	4.88

Average % RSD = 4.6

(#) = Out of Range

DGMEE.M Tue Apr 23 13:26:29 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042202\XY008440.D Vial: 100
Acq On : 22 Apr 2002 4:01 pm Operator: RachidA
Sample : ICV-1000 Inst : VOA5
Misc : gc1765,gxy119,,,,, Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	789.326	21.1	80	-0.02
2	Ethylene	1000.000	880.771	11.9	88	0.00
3	Ethane	1000.000	857.435	14.3	85	0.00

Average % D = 15.7489

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042302\XY008444.D
Acq On : 23 Apr 2002 8:29 am
Sample : CC119-500ppmv
Misc : gc1765,gxy118,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	515.537	-3.1	106	-0.03
2	Ethylene	500.000	533.665	-6.7	107	-0.04
3	Ethane	500.000	537.292	-7.5	108	-0.04

Average % D = 5.8

(#) = Out of Range
XY008436.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Wed Apr 24 14:05:39 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042302\XY008457.D
Acq On : 23 Apr 2002 3:09 pm
Sample : CC119-1000ppmv
Misc : gc1765,gxy120,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	1000.000	981.357	1.9	100	-0.10
2	Ethylene	1000.000	1019.728	-2.0	102	-0.10
3	Ethane	1000.000	1016.480	-1.6	101	-0.08

Average % D = 1.8

(#) = Out of Range
XY008437.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Wed Apr 24 14:05:17 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042302\XY008461.D
Acq On : 23 Apr 2002 4:21 pm
Sample : ECC119-5000ppmv
Misc : gc1765,gxy120,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	5000.000	5490.020	-9.8	113	-0.02
2	Ethylene	5000.000	5560.430	-11.2	112	-0.15
3	Ethane	5000.000	5670.468	-13.4	112	-0.16

Average % D = 11.5

(#) = Out of Range
XY008438.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Wed Apr 24 14:05:56 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042502\XY008479.D
Acq On : 25 Apr 2002 8:58 am
Sample : CC119-500ppmv
Misc : gc1775,gxy122,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	500.000	530.546	-6.1	109	-0.09
2	Ethylene	500.000	549.116	-9.8	110	-0.13
3	Ethane	500.000	546.284	-9.3	109	-0.14

Average % D = 8.4

(#) = Out of Range
XY008436.D DGMEE.M

SPCC's out = 0 CCC's out = 0
Fri Apr 26 07:32:30 2002 QRXY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\042502\XY008493.D
Acq On : 25 Apr 2002 4:23 pm
Sample : CC119-5000ppmv
Misc : gc1775,gxy122,,,,,
IntFile : EVENTS.E

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Methane	5000.000	5874.681	-17.5	121	-0.02
2	Ethylene	5000.000	5925.416	-18.5	120	-0.07
3	Ethane	5000.000	6045.797	-20.9	119	-0.08

Average % D = 19.0

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY008438.D DGMEE.M Fri Apr 26 07:33:52 2002 QRXY

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY120-BS	XY008447.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12899-1, F12899-2, F12899-3, F12899-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.4	95	50-150
74-84-0	Ethane	22	21.5	98	50-150
74-85-1	Ethene	29	28.8	99	50-150

Blank Spike Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY122-BS	XY008482.D	1	04/25/02	RA	n/a	n/a	GXY122

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12899-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	11	10.5	95	50-150
74-84-0	Ethane	22	21.8	99	50-150
74-85-1	Ethene	29	29.3	101	50-150

Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12899-2DUP	XY008450.D	1	04/23/02	RA	n/a	n/a	GXY120
F12899-2	XY008449.D	1	04/23/02	RA	n/a	n/a	GXY120

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12899-1, F12899-2, F12899-3, F12899-5

CAS No.	Compound	F12899-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	ND		ND		nc	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

Duplicate Summary

Job Number: F12899
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F12939-1DUP	XY008490.D	1	04/25/02	RA	n/a	n/a	GXY122
F12939-1	XY008489.D	1	04/25/02	RA	n/a	n/a	GXY122

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F12899-4

CAS No.	Compound	F12939-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	43.4		47.1		8	30
74-84-0	Ethane	ND		ND		nc	30
74-85-1	Ethene	ND		ND		nc	30

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT: CSS Panama City	JOB NUMBER: F12899
SUBJECT: OUG	
BASED ON: RSK-147/175	DRAWING NUMBER:
BY: SLS	CHECKED BY: / APPROVED BY: / DATE:

13GLM18D01 (F12899-5)

Methane 12.1 ug/L

MW = 16.0426
Molar Vol = 22.4 L
Water = 55.5 g-moles/L
Temp = 297 K
Corrected Gas density = 24.37
Peak Area = 10 8286

Blank Corrected Rescult
Dilution Adjusted Rescult } 111.24 ppmV

H_2O = 9.61 ug/L

Henry's = 40560

Saturation = 2.44 ug/L

Total = 12.05 ug/L

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\042302\XY008460.D
Acq On : 23 Apr 2002 4:09 pm
Sample : F12899-5
Misc : gc1765,gxy120,,,,,
IntFile : EVENTS.E
Quant Time: Apr 24 13:48 2002 Quant Results File: DGMEE.RES

Vial: 100
Operator: RachidA
Inst : VOA5
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\DGMEE.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Mon Apr 22 14:48:09 2002
Response via : Initial Calibration
DataAcq Meth : DGMEE.M

Volume Inj. : manual
Signal Phase : Carboxen-1006 PLOT
Signal Info : 0.53

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) Methane	1.44	1048286	111.243	ppmv
2) Ethylene	0.00	-0	N.D.	ppmv
3) Ethane	0.00	0	N.D.	ppmv d

(f)=RT Delta > 1/2 Window
(m)=manual int.

Dissolved Gases Calculation Worksheet

Data File Name xy008460.d
Date Acquired 04/23/20 -1:4:
Sample Name F12899-5
Sample Multiplier 1
Temperature (C) 24
Headspace (cc) 5
Sample Volume (mL) 38

Name	MW	Molar Volume (L)	Water (g-moles/L)	Temp (K)	Corrected Gas density	Peak Area	Helium Blank	Blank Corrected Result (ppmV)	Dilution Adjusted Result (ppmV)	Water (ug/L)	Henry's Constant	Saturation (ug/L)	Total (ug/L)
Methane	16	22.4	55.5	297	24.37	1048286	0	111.24	111.24	9.61	40560	2.44	12.05
Ethylene	28	22.4	55.5	297	24.37	0		0.00	0.00	0.00	11160	0.00	0.00
Ethane	30	22.4	55.5	297	24.37	0		0.00	0.00	0.00	29420	0.00	0.00

Definitions

Molar Volume (L)	The volume of 1 mole of a gas at standard temperature and pressure (STP).
Water g/Moles	One liter of water is equal to 55.5g-moles.
Corrected Gas Density	Gas density corrected for temperature is equal to (molar volume) x (temp-k/273)
Headspace Concentration	Is equal to (ppmv reading) x (mw/corrected gas density).
Water Concentration	Is equal to headspace concentration (ug/L) x headspace volume / sample volume.
Saturation Concentration	Gas which remains at equilibrium in the sample is equal to (headspace conc-ppm) x (mw) x 55.5/Henry's Constant.

Henry's Constants

	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43460	44180	44900
Ethylene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. G. WALKER**	**DATE:**	**JUNE 5, 2002**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION- PAH CTO 184, CSS PANAMA CITY SDG F12899R**		
SAMPLES:	5/Aqueous		

13GLM02D01 13GLM0201 13GLM02S01 13GLM18I01
13GLM18D01

OVERVIEW

The sample set for CTO 184 CSS Panama, SDG F12899 consists of, five (5) aqueous environmental samples. The samples were analyzed for PAHs.

The samples were collected by TetraTech NUS on April 12, 2002 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8270C selective ion monitoring (SIM) analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial/continuing calibrations
* • Laboratory method blank results
* • Surrogate Recoveries
* • Blank Spike/Blank Spike Duplicate Results
* • Matrix Spike/Matrix Spike Duplicate Results
* • Field Duplicate Results
* • Compound Quantitation
* • Compound Identification
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

PAHs

Surrogate and matrix spike recoveries for the SIM analysis were not reported because the same extracts used for the SVOA analysis were used for the SIM analysis. The surrogate and matrix spike concentrations in the extracts are over calibration for SIM analysis. However, all surrogate and matrix spike recoveries were within quality control criteria for the SVOA analysis so no action was taken on the lack of surrogate and matrix spike recoveries for SIM analysis.

Several blank spike recoveries for the SVOA analysis did not meet quality control criteria. The samples were re-extracted, outside of hold time, with acceptable recoveries. No action was taken since the MS/MSDs met quality control criteria.

Continuing calibration analyzed on 5/24/02 had a percent difference (%D) that exceeded the 25% quality control limit for indeno(1,2,3-cd)pyrene. Non-detected results for indeno(1,2,3-cd)pyrene in all samples were qualified as estimated, "UJ".

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Indeno(1,2,3-cd)pyrene exceeded the continuing calibration %D criteria.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 2834

SDG: F12899R MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM0201
samp_date	4/12/2002
lab_id	F12899-2R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM02D01
samp_date	4/12/2002
lab_id	F12899-1R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1.1	U	
2-METHYLNAPHTHALENE	1.1	U	
ACENAPHTHENE	1.1	U	
ACENAPHTHYLENE	1.1	U	
ANTHRACENE	1.1	U	
BENZO(A)ANTHRACENE	0.22	U	
BENZO(A)PYRENE	0.22	U	
BENZO(B)FLUORANTHENE	0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U	
BENZO(K)FLUORANTHENE	0.22	U	
CHRYSENE	0.22	U	
DIBENZO(A,H)ANTHRACENE	0.22	U	
FLUORANTHENE	1.1	U	
FLUORENE	1.1	U	
INDENO(1,2,3-CD)PYRENE	0.22	UJ	C
NAPHTHALENE	1.1	U	
PHENANTHRENE	1.1	U	
PYRENE	1.1	U	

nsample	13GLM02S01
samp_date	4/12/2002
lab_id	F12899-3R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 2834

SDG: F12899R MEDIA: WATER DATA FRACTION: PAH

nsample	13GLM18D01
samp_date	4/12/2002
lab_id	F12899-5R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

nsample	13GLM18I01
samp_date	4/12/2002
lab_id	F12899-4R
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	UJ	C
NAPHTHALENE	2.3		
PHENANTHRENE	1	U	
PYRENE	1	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010202.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010201.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.1	ug/l	
208-96-8	Acenaphthylene	ND	1.1	ug/l	
120-12-7	Anthracene	ND	1.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	0.22	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	1.1	ug/l	
86-73-7	Fluorene	ND	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	ug/l	
91-20-3	Naphthalene	ND	1.1	ug/l	
85-01-8	Phenanthrene	ND	1.1	ug/l	
129-00-0	Pyrene	ND	1.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010203.D	1	05/24/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010205.D	1	05/25/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010204.D	1	05/25/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	2.3	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

APPENDIX C

SUPPORT DOCUMENTATION

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834 (CTO-184)
Report Date: May 30, 2002
Job Number: F12899R

5 samples were collected on April 12, 2002, and received on April 13, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.
Per Suzanne Smith on 5/24/02 we were to analyze the 8270C extracts for PAHs by SIM method. Ms. Smith was informed that there would be no reportable surrogates or spikes from these extracts.
We reported all PAH SIM data as is.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846-8260B:

- The MS/MSD associated with analytical batch number VG500 had several recoveries above acceptance limits. All RPDs were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number VG498 had one RPD above acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

SVOC, SW846-8270C:

- The Blank Spike associated with analytical batch number SW527 had several recoveries below acceptance limits. The Blank Spike was reanalyzed under batch SW528, with similar results. All associated samples were re-extracted outside of holding time to confirm results. The re-extracted Blank Spike was within acceptance limits and all sample results confirmed. Only the original analysis, extracted within hold, has been reported. All samples have been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch MP4337 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and/or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

General Chemistry: Nitrite

- The MS associated with analytical batch number GP3113/GN9279 had one recovery below acceptance limits. The spike recovery indicates a possible matrix interference and/or sample nonhomogeneity. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. ALSE routinely reports Organic target analytes down to 1/2 the Reporting Level. These positive results are flagged with a "J" qualifier. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Date: May 30, 2002

Sue O. Bell, Project Manager (signature on file)

0005

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F12899

Client/Project: Tetra Tech / CSS Panama City

Date/Time Received: 4/13/02 0930 Total Number of Coolers 2

Method of Delivery: FedEx Greyhound UPS Pickup Delivery Other

Air Bill Number: 8311 5252 8692

Cooler Temperatures: 3.2, 5.2

Custody Seals Intact?	YES	NO	
Trip Blank Intact?	YES	NO	NA
Chain of Custody Provided?	YES	NO	
Chain of Custody Match Bottles?	YES	NO	
Sample Labels Present?	YES	NO	
Are All Bottles Unbroken?	YES	NO	
Proper Preservative?	YES	NO	
Correct Containers Used?	YES	NO	
Sufficient Sample Volume?	YES	NO	
Number of Encores			

Comments:

Sample #5 - 1 bottle for SVOC was received broken.

Signature: [signature] Date: 4/13/02 0007

Rev. 08/28/01 SI

FedEx Airbill 8315252 8692

ACCUTEST®

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC	Metals	Dissolved Gases	Cl, SO4, NO2, NO3	TOC	LAB USE ONLY
	13GLM02D01	4/12/02		JB	GW	11	X		X		X	3	2	1	3	1	1	
	13GLM0201		0930			11	X		X		X	3	2	1	3	1	1	
	13GLM0201MS		0930			6	X		X		X	3	2	1	Ø	Ø	Ø	
	13GLM0201MD		0930			6	X		X		X	3	2	1	Ø	Ø	Ø	
	13GLM02S01		0930			11	X		X		X	3	2	1	3	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
	4-12-02	1.	2.		2. Miranda Naupot
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 3.2 C

FEDEX HIRBZL # 8311 5252 8692

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

CONTD

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE 201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC-1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC's (8260B)	TCL SVOC's/PAH's (8270C)	Select Metals (As, Na, Mg, K, Mn, Ca)	TOC	Anions (NO2, NO3, SO4)	Dissolved Gases	LAB USE ONLY
1 mg 4/13	13GLM18I01	4/12/02	8:40	MTA JJ	GW	11	~~7~~ 1		1	1	3	3	8	1	1	1	3	
2 4/13	13GLM18D01	↓	9:45	↓	↓	11	~~7~~ 1		1	1	3	3	8	1	1	1	3	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4/12/02	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐

TEMPERATURE 3.2° 5.2° C

F12899R

HOLDING TIME

06/03/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM0201	F12899-2R	NORMAL	F12899R	SIM	04/12/02	04/18/02	05/24/02	6	36	42
UG/L	13GLM02D01	F12899-1R	NORMAL	F12899R	SIM	04/12/02	04/18/02	05/24/02	6	36	42
UG/L	13GLM02S01	F12899-3R	NORMAL	F12899R	SIM	04/12/02	04/18/02	05/24/02	6	36	42
UG/L	13GLM18D01	F12899-5R	NORMAL	F12899R	SIM	04/12/02	04/18/02	05/25/02	6	37	43
UG/L	13GLM18I01	F12899-4R	NORMAL	F12899R	SIM	04/12/02	04/18/02	05/25/02	6	37	43

Sample Summary

Tetra-Tech, NUS

Job No: F12899R

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC-1842

Sample Number	Collected Date	Collected Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F12899-1R	04/12/02	00:00 JB	04/13/02	AQ	Ground Water	13GLM02D01
F12899-2R	04/12/02	09:30 JB	04/13/02	AQ	Ground Water	13GLM0201
F12899-3R	04/12/02	08:30 JB	04/13/02	AQ	Ground Water	13GLM02S01
F12899-4R	04/12/02	08:40 JB	04/13/02	AQ	Ground Water	13GLM18I01
F12899-5R	04/12/02	09:45 JB	04/13/02	AQ	Ground Water	13GLM18D01

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT CSS Panama City	JOB NUMBER CT0184
SUBJECT PAH	
BASED ON 8270C SIM	DRAWING NUMBER
BY E. Lechmyer	CHECKED BY / APPROVED BY / DATE

13GLM18I01

Naphthalene = 2.3 ug/L

$$\frac{157380 \times 4}{234514 \times 1.145} = 2.3 \text{ ug/L}$$

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4R	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W010204.D	1	05/25/02	ME	04/18/02	OP5231	SW556
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	2.3	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052402A\W010204.D
Acq On : 25 May 2002 12:14 am
Sample : f12899-4r
Misc : op5231,sw556,1000,,,1,1,water
MS Integration Params: RTEINT.P
Quant Time: May 27 13:33 2002

Vial: 20
Operator: marke
Inst : MSBNA01
Multiplr: 1.00

Quant Results File: SIM_PAH.RES

Quant Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration
DataAcq Meth : SIM_PAH

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.26	136	234514	4.00	ppm	0.00
7) Acenaphthene-d10	8.58	164	113285	4.00	ppm	-0.02
16) Phenanthrene-d10	11.11	188	169680	4.00	ppm	-0.01
20) Chrysene-d12	16.03	240	96899	4.00	ppm	-0.02
25) Perylene-d12	18.53	264	60290	4.00	ppm	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.54	82	1032798	43.61	ppm	-0.02
Spiked Amount 10.000	Range 46 - 125		Recovery = 436.10%#			
9) 2-Fluorobiphenyl	7.59	172	1899668	37.59	ppm	-0.01
Spiked Amount 10.000	Range 46 - 125		Recovery = 375.90%#			
22) Terphenyl-d14	14.14	244	1093131	47.73	ppm	0.00
Spiked Amount 10.000	Range 49 - 126		Recovery = 477.30%#			
Target Compounds						Qvalue
4) Naphthalene	6.28	128	157380	2.35	ppm	99

0030

(#) = qualifier out of range (m) = manual integration

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration

5/23/02

Calibration Files
L1 =W010123.D L2 =W010124.D L3 =W010125.D
L4 =W010122.D L5 =W010126.D L6 =W010127.D L7 =W010128.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.363	0.401	0.399	0.432	0.413	0.412	0.408	0.404	5.23
3)P N-nitroso-di-n-pr		0.235	0.229	0.236	0.218	0.202	0.199	0.220	7.35
4) Naphthalene	1.107	1.199	1.156	1.191	1.136	1.121	1.101	1.145	3.42
5) 2-Methylnaphthale	0.690	0.741	0.736	0.762	0.732	0.730	0.691	0.726	3.63
6) 1-Methylnaphthale	0.617	0.675	0.658	0.685	0.651	0.649	0.617	0.650	4.04
7) I Acenaphthene-d10	----------ISTD----------								
8)P Hexachlorocyclope		0.299	0.357	0.392	0.416	0.434	0.437	0.389	13.66
9)S 2-Fluorobiphenyl	1.620	1.784	1.809	1.821	1.821	1.837	1.799	1.784	4.18
10) 2-Chloronaphthale	1.386	1.587	1.530	1.562	1.543	1.530	1.530	1.524	4.23
11) Acenaphthylene	1.794	2.029	2.011	2.087	2.027	2.056	2.004	2.001	4.78
12)C Acenaphthene	1.175	1.327	1.329	1.342	1.300	1.316	1.256	1.292	4.53
13)P 2,4-Dinitrophenol		0.101	0.153	0.188	0.228	0.252	0.237	0.193	29.82
14)P 4-Nitrophenol		0.246	0.264	0.273	0.268	0.290	0.256	0.266	5.67
15) Fluorene	1.269	1.422	1.442	1.466	1.444	1.484	1.398	1.418	5.04
16) I Phenanthrene-d10	----------ISTD----------								
17) Phenanthrene	1.226	1.342	1.320	1.373	1.321	1.319	1.301	1.314	3.44
18) Anthracene	1.123	1.293	1.297	1.344	1.321	1.293	1.252	1.275	5.71
19)C Fluoranthene	1.092	1.282	1.323	1.373	1.345	1.380	1.315	1.301	7.57
20) I Chrysene-d12	----------ISTD----------								
21) Pyrene	2.019	2.179	2.215	2.381	2.213	2.159	2.188	2.193	4.85
22)S Terphenyl-d14	0.858	0.914	0.935	0.998	0.975	0.966	0.972	0.945	5.03
23) Benzo[a]anthracen	1.410	1.466	1.419	1.527	1.510	1.586	1.545	1.495	4.40
24) Chrysene	1.412	1.523	1.533	1.579	1.563	1.581	1.557	1.536	3.82
25) I Perylene-d12	----------ISTD----------								
26) Benzo[b]fluoranth	1.637	1.839	1.710	1.823	1.974	2.055	2.063	1.871	8.87
27) Benzo[k]fluoranth	1.706	1.910	2.020	2.115	2.277	2.276	2.353	2.094	11.10
28)C Benzo[a]pyrene	1.409	1.449	1.466	1.607	1.685	1.776	1.731	1.589	9.33
29) Indeno[1,2,3-cd]p	1.048	1.031	1.083	1.220	1.124	1.226	1.226	1.137	7.63
30) Dibenz[a,h]anthra	0.968	0.981	1.069	1.213	1.223	1.353	1.360	1.167	14.03
31) Benzo[g,h,i]peryl	1.305	1.402	1.442	1.517	1.528	1.601	1.604	1.485	7.35

Average % RSD = 7.25816

(#) = Out of Range

Method Blank Summary

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5231-MB	W010187.D	1	05/24/02	ME	04/18/02	OP5231	SW556

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F12899-1R, F12899-2R, F12899-3R, F12899-4R, F12899-5R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW556-DFTPP	**Injection Date:**	05/24/02
Lab File ID:	W010185.D	**Injection Time:**	15:01
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 80.0% of mass 198	95972	41.3	Pass
68	Less than 2.0% of mass 69	252	0.11 (0.32) [a]	Pass
69	Mass 69 relative abundance	78760	33.9	Pass
70	Less than 2.0% of mass 69	196	0.08 (0.25) [a]	Pass
127	25.0 - 75.0% of mass 198	92035	39.6	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	232427	100.0	Pass
199	5.0 - 9.0% of mass 198	15388	6.6	Pass
275	10.0 - 30.0% of mass 198	54579	23.5	Pass
365	0.75 - 100.0% of mass 198	5384	2.3	Pass
441	Present, but less than mass 443	28026	12.1 (80.5) [b]	Pass
442	40.0 - 100.0% of mass 198	185064	79.6	Pass
443	15.0 - 24.0% of mass 442	34830	15.0 (18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW556-CC553	W010186.D	05/24/02	15:21	00:20	Continuing cal 4
OP5231-MB	W010187.D	05/24/02	15:51	00:50	Method Blank
ZZZZZZ	W010188.D	05/24/02	16:21	01:20	(unrelated sample)
ZZZZZZ	W010189.D	05/24/02	16:51	01:50	(unrelated sample)
ZZZZZZ	W010190.D	05/24/02	17:21	02:20	(unrelated sample)
ZZZZZZ	W010191.D	05/24/02	17:50	02:49	(unrelated sample)
ZZZZZZ	W010192.D	05/24/02	18:20	03:19	(unrelated sample)
ZZZZZZ	W010193.D	05/24/02	18:50	03:49	(unrelated sample)
ZZZZZZ	W010194.D	05/24/02	19:19	04:18	(unrelated sample)
ZZZZZZ	W010195.D	05/24/02	19:49	04:48	(unrelated sample)
ZZZZZZ	W010196.D	05/24/02	20:18	05:17	(unrelated sample)
ZZZZZZ	W010197.D	05/24/02	20:47	05:46	(unrelated sample)
ZZZZZZ	W010198.D	05/24/02	21:17	06:16	(unrelated sample)
ZZZZZZ	W010199.D	05/24/02	21:46	06:45	(unrelated sample)
ZZZZZZ	W010200.D	05/24/02	22:16	07:15	(unrelated sample)
F12899-1R	W010201.D	05/24/02	22:45	07:44	13GLM02D01
F12899-2R	W010202.D	05/24/02	23:15	08:14	13GLM0201
F12899-3R	W010203.D	05/24/02	23:44	08:43	13GLM02S01
F12899-4R	W010204.D	05/25/02	00:14	09:13	13GLM18I01

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW556-DFTPP	**Injection Date:**	05/24/02
Lab File ID:	W010185.D	**Injection Time:**	15:01
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F12899-5R	W010205.D	05/25/02	00:43	09:42	13GLM18D01

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW553-DFTPP	**Injection Date:**	05/22/02
Lab File ID:	W010121.D	**Injection Time:**	08:58
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 80.0% of mass 198	68523	42.8		Pass
68	Less than 2.0% of mass 69	609	0.38	(1.1) [a]	Pass
69	Mass 69 relative abundance	55347	34.5		Pass
70	Less than 2.0% of mass 69	353	0.22	(0.64) [a]	Pass
127	25.0 - 75.0% of mass 198	64323	40.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	160203	100.0		Pass
199	5.0 - 9.0% of mass 198	10776	6.7		Pass
275	10.0 - 30.0% of mass 198	37363	23.3		Pass
365	0.75 - 100.0% of mass 198	3685	2.3		Pass
441	Present, but less than mass 443	19318	12.1	(77.3) [b]	Pass
442	40.0 - 100.0% of mass 198	128296	80.1		Pass
443	15.0 - 24.0% of mass 442	24999	15.6	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW553-ICC553	W010122.D	05/22/02	09:18	00:20	Initial cal 4
SW553-IC553	W010123.D	05/22/02	09:47	00:49	Initial cal 1
SW553-IC553	W010124.D	05/22/02	10:17	01:19	Initial cal 2
SW553-IC553	W010125.D	05/22/02	10:47	01:49	Initial cal 3
SW553-IC553	W010126.D	05/22/02	11:16	02:18	Initial cal 5
SW553-IC553	W010127.D	05/22/02	11:46	02:48	Initial cal 6
SW553-IC553	W010128.D	05/22/02	12:16	03:18	Initial cal 7
OP5156-MB	W010130.D	05/22/02	13:15	04:17	Method Blank
ZZZZZZ	W010131.D	05/22/02	13:44	04:46	(unrelated sample)
OP5176-BS	W010132.D	05/22/02	14:14	05:16	Blank Spike
OP5176-MB	W010133.D	05/22/02	14:44	05:46	Method Blank
ZZZZZZ	W010134.D	05/22/02	15:13	06:15	(unrelated sample)
F13228-3	W010135.D	05/22/02	15:43	06:45	(used for QC only; not part of job F12899R)
OP5176-MS	W010136.D	05/22/02	16:12	07:14	Matrix Spike
OP5176-MSD	W010137.D	05/22/02	16:42	07:44	Matrix Spike Duplicate
ZZZZZZ	W010138.D	05/22/02	17:12	08:14	(unrelated sample)
ZZZZZZ	W010139.D	05/22/02	17:41	08:43	(unrelated sample)
ZZZZZZ	W010140.D	05/22/02	18:11	09:13	(unrelated sample)
ZZZZZZ	W010141.D	05/22/02	18:41	09:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Sample:	SW553-DFTPP	**Injection Date:**	05/22/02
Lab File ID:	W010121.D	**Injection Time:**	08:58
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W010142.D	05/22/02	19:11	10:13	(unrelated sample)
ZZZZZZ	W010143.D	05/22/02	19:40	10:42	(unrelated sample)

Response Factor Report MSBNA01

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Initial Calibration

5/23/02

Calibration Files
L1 =W010123.D L2 =W010124.D L3 =W010125.D
L4 =W010122.D L5 =W010126.D L6 =W010127.D L7 =W010128.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.363	0.401	0.399	0.432	0.413	0.412	0.408	0.404	5.23
3)P N-nitroso-di-n-pr		0.235	0.229	0.236	0.218	0.202	0.199	0.220	7.35
4) Naphthalene	1.107	1.199	1.156	1.191	1.136	1.121	1.101	1.145	3.42
5) 2-Methylnaphthale	0.690	0.741	0.736	0.762	0.732	0.730	0.691	0.726	3.63
6) 1-Methylnaphthale	0.617	0.675	0.658	0.685	0.651	0.649	0.617	0.650	4.04
7) I Acenaphthene-d10	ISTD								
8)P Hexachlorocyclope		0.299	0.357	0.392	0.416	0.434	0.437	0.389	13.66
9)S 2-Fluorobiphenyl	1.620	1.784	1.809	1.821	1.821	1.837	1.799	1.784	4.18
10) 2-Chloronaphthale	1.386	1.587	1.530	1.562	1.543	1.530	1.530	1.524	4.23
11) Acenaphthylene	1.794	2.029	2.011	2.087	2.027	2.056	2.004	2.001	4.78
12)C Acenaphthene	1.175	1.327	1.329	1.342	1.300	1.316	1.256	1.292	4.53
13)P 2,4-Dinitrophenol		0.101	0.153	0.188	0.228	0.252	0.237	0.193	29.82
14)P 4-Nitrophenol		0.246	0.264	0.273	0.268	0.290	0.256	0.266	5.67
15) Fluorene	1.269	1.422	1.442	1.466	1.444	1.484	1.398	1.418	5.04
16) I Phenanthrene-d10	ISTD								
17) Phenanthrene	1.226	1.342	1.320	1.373	1.321	1.319	1.301	1.314	3.44
18) Anthracene	1.123	1.293	1.297	1.344	1.321	1.293	1.252	1.275	5.71
19)C Fluoranthene	1.092	1.282	1.323	1.373	1.345	1.380	1.315	1.301	7.57
20) I Chrysene-d12	ISTD								
21) Pyrene	2.019	2.179	2.215	2.381	2.213	2.159	2.188	2.193	4.85
22)S Terphenyl-d14	0.858	0.914	0.935	0.998	0.975	0.966	0.972	0.945	5.03
23) Benzo[a]anthracen	1.410	1.466	1.419	1.527	1.510	1.586	1.545	1.495	4.40
24) Chrysene	1.412	1.523	1.533	1.579	1.563	1.581	1.557	1.536	3.82
25) I Perylene-d12	ISTD								
26) Benzo[b]fluoranth	1.637	1.839	1.710	1.823	1.974	2.055	2.063	1.871	8.87
27) Benzo[k]fluoranth	1.706	1.910	2.020	2.115	2.277	2.276	2.353	2.094	11.10
28)C Benzo[a]pyrene	1.409	1.449	1.466	1.607	1.685	1.776	1.731	1.589	9.33
29) Indeno[1,2,3-cd]p	1.048	1.031	1.083	1.220	1.124	1.226	1.226	1.137	7.63
30) Dibenz[a,h]anthra	0.968	0.981	1.069	1.213	1.223	1.353	1.360	1.167	14.03
31) Benzo[g,h,i]peryl	1.305	1.402	1.442	1.517	1.528	1.601	1.604	1.485	7.35

Average % RSD = 7.25816

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052402A\W010186.D Vial: 2
Acq On : 24 May 2002 3:21 pm Operator: marke
Sample : cc553-4 Inst : MSBNA01
Misc : op5197,sw556,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\SIM_PAH.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed May 22 12:38:19 2002
Response via : Multiple Level Calibration

5/28/02

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	4.000	4.000	0.0	109	-0.02
2	S	Nitrobenzene-d5	4.000	4.184	-4.6	106	-0.02
3	P	N-nitroso-di-n-propylamine	50.000	54.467	-8.9	110	-0.01
4		Naphthalene	10.000	10.321	-3.2	108	-0.01
5		2-Methylnaphthalene	10.000	10.799	-8.0	112	-0.02
6		1-Methylnaphthalene	10.000	10.672	-6.7	110	-0.02
7	I	Acenaphthene-d10	4.000	4.000	0.0	113	-0.02
8	P	Hexachlorocyclopentadiene	50.000	47.537	4.9	107	-0.02
9	S	2-Fluorobiphenyl	4.000	4.092	-2.3	114	-0.01
10		2-Chloronaphthalene	10.000	9.989	0.1	110	-0.02
11		Acenaphthylene	10.000	10.472	-4.7	114	-0.01
12	C	Acenaphthene	10.000	10.245	-2.4	112	-0.01
13	P	2,4-Dinitrophenol	50.000	58.679	-17.4	136	-0.02
14	P	4-Nitrophenol	50.000	51.634	-3.3	114	-0.03
15		Fluorene	10.000	10.706	-7.1	117	-0.01
16	I	Phenanthrene-d10	4.000	4.000	0.0	119	-0.01
17		Phenanthrene	10.000	10.131	-1.3	115	-0.02
18		Anthracene	10.000	10.496	-5.0	118	-0.02
19	C	Fluoranthene	10.000	10.338	-3.4	116	-0.02
20	I	Chrysene-d12	4.000	4.000	0.0	115	-0.02
21		Pyrene	10.000	10.890	-8.9	115	-0.02
22	S	Terphenyl-d14	4.000	4.293	-7.3	117	-0.02
23		Benzo[a]anthracene	1.000	1.041	-4.1	117	-0.02
24		Chrysene	1.000	1.020	-2.0	114	-0.02
25	I	Perylene-d12	4.000	4.000	0.0	108	-0.02
26		Benzo[b]fluoranthene	1.000	1.073	-7.3	119	-0.02
27		Benzo[k]fluoranthene	1.000	1.030	-3.0	110	-0.02
28	C	Benzo[a]pyrene	1.000	1.067	-6.7	114	-0.02
29		Indeno[1,2,3-cd]pyrene	1.000	1.253	-25.3#	126	-0.02
30		Dibenz[a,h]anthracene	1.000	1.190	-19.0	123	-0.02
31		Benzo[g,h,i]perylene	1.000	1.073	-7.3	113	-0.01

Average % D = 6.7

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W010122.D SIM_PAH.M Fri May 24 15:46:20 2002 MSBNA01

Semivolatile Internal Standard Area Summary

Job Number: F12899R
Account: TETRFLTA Tetra-Tech, NUS
Project: CSS Panama City-N2834(CTO-0184)

Check Std:	SW556-CC553	**Injection Date:**	05/24/02
Lab File ID:	W010186.D	**Injection Time:**	15:21
Instrument ID:	GCMSW	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	267529	6.25	134988	8.58	204032	11.11	115210	16.03	69524	18.53
Upper Limit [a]	535058	6.75	269976	9.08	408064	11.61	230420	16.53	139048	19.03
Lower Limit [b]	133765	5.75	67494	8.08	102016	10.61	57605	15.53	34762	18.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP5231-MB	250896	6.25	122772	8.58	186686	11.11	99049	16.03	60664	18.53
ZZZZZZ	165177	6.26	94385	8.59	118534	11.12	74391	16.04	52495	18.54
ZZZZZZ	189121	6.26	95540	8.59	134865	11.12	79775	16.04	55066	18.54
ZZZZZZ	221858	6.26	111732	8.59	171158	11.11	100976	16.03	63655	18.53
ZZZZZZ	233513	6.26	116804	8.58	178687	11.11	103220	16.03	65556	18.53
ZZZZZZ	229762	6.26	110367	8.58	168875	11.11	97214	16.03	63803	18.53
ZZZZZZ	215150	6.26	108731	8.58	163502	11.11	94910	16.04	61631	18.53
ZZZZZZ	209561	6.26	104979	8.59	148940	11.12	83367	16.05	54614	18.54
ZZZZZZ	226555	6.26	112729	8.59	173659	11.11	100788	16.03	63710	18.53
ZZZZZZ	235295	6.26	117696	8.59	175611	11.11	102744	16.04	64263	18.53
ZZZZZZ	228319	6.26	110497	8.58	167751	11.11	97641	16.03	62788	18.53
ZZZZZZ	243807	6.26	122448	8.59	181656	11.11	103935	16.03	62738	18.53
ZZZZZZ	228827	6.26	113019	8.59	172536	11.11	99168	16.03	62028	18.53
ZZZZZZ	226242	6.26	114082	8.59	172751	11.11	99698	16.03	61519	18.53
F12899-1R	211723	6.26	100493	8.59	155587	11.11	90819	16.03	59664	18.53
F12899-2R	239206	6.26	114637	8.59	170860	11.11	96848	16.04	61188	18.53
F12899-3R	231811	6.26	111229	8.59	166210	11.11	90436	16.04	55332	18.53
F12899-4R	234514	6.26	113285	8.58	169680	11.11	96899	16.03	60290	18.53
F12899-5R	222908	6.26	110661	8.58	169288	11.11	97416	16.03	60977	18.53

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

LIQUID SAMPLE PREP REPORT

Date: 5/28/02 Method*: 8270SIM Batch#: OPS231

Batch Started On: 4/18/02 Prior Number Of Samples in Batch : 0 Analyst: AA

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP S231 MB		1000ml	6	<2 >11	0.5ml		1ml	
OP ↓ BS		↓				0.5ml		5/28/02
F12878-1	9	1000						
-2	9	990						
-3	10	950						
-4	5	960						
-5	9	1000						
-6	9	1000						
-7	9	990						
-8	9	1000						
-9	9	1000						
-10	9	990						
-11	9	1000						
-12	9	1000						
-13	9	1000						
F12899-1	10	950						
-2	22	1000						
-3	10	1000						
-4	9	1000						
-5	9	1000	✓	✓	✓		✓	
OP MS								
OP MSD				5/28/02				
OP DUP								

Surrogate ID: E1034 C/D Conc: 200/100 ppm Exp. Date: 9/29/02 Bath Temp.: 70°C

Spike ID: Conc: Exp. Date: Bath Temp2.:

CH2CL2 Lot # CD710 Hexane Lot # Na2SO4 Lot# 4135320L

Acetonitrile Lot # Methanol Lot # Acetone Lot#

Reagent # EB #244 H2SO4 Reagent # EB #254 NaOH Reagent #

Comments:

Relinquished By: Date: 5/28/02

Accepted By: Date: 5/28/02

0091

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids. 8330A and 8332 prepped by 3535A.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. G. WALKER**	**DATE:**	**MAY 24, 2002**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SELECT METALS AND MISCELLANEOUS PARAMETERS**
CTO 184, CSS PANAMA CITY
SDG F12899

SAMPLES: 5/Aqueous

13GLM02D01 13GLM0201 13GLM02S01 13GLM18I01
13GLM18D01

OVERVIEW

The sample set for CTO 184 CSS Panama, SDG F12899 consists of, five (5) aqueous environmental samples. The samples were analyzed for arsenic calcium, magnesium, manganese, potassium, sodium, chloride, sulfate, total organic carbon (TOC), nitrite, and nitrate.

The samples were collected by TetraTech NUS on April 12, 2002 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metals analyses, were conducted using the SW-846 Method 6010B analytical and reporting protocols. Chloride, sulfate, nitrite, and nitrate analyses were conducted using the SW-846 Method 9056 / EPA Method 300.0. TOC analyses were conducted using EPA Method 415.1. The data contained in this SDG were validated with regard to the following parameters:

- Data Completeness
- * Holding Times
- * Calibration Recoveries
- Laboratory Blank Analyses
- * Laboratory Control Sample Results
- * ICP Interference Check Sample Results
- Matrix Spike Recoveries
- ICP Serial Dilution Results
- * Laboratory Duplicate Results
- * Sample Quantitation
- * Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Samples affected: All samples

Analyte	Maximum Concentration	Action Level
Calcium	20.6 ug/L	103 ug/L
Magnesium	17.2 ug/L	86.0 ug/L
Potassium	704 ug/L	3,520 ug/L
Sodium	164 ug/L	820 ug/L

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. The positive results less than the action level reported for potassium were qualified "U" as a result of laboratory blank contamination.

Matrix Spike Recoveries

The Matrix Spike (MS) percent recovery for nitrite was < 75% quality control limit. Non-detected results reported for nitrite were qualified as estimated, "UJ".

ICP Serial Dilution

The ICP Serial Dilution percent difference (%D) for potassium was >10% quality control limit. All results for potassium were non-detect so qualification of the data was not necessary.

Notes

The reporting limits did not agree between the electronic data deliverable (EDD) and Form I for the miscellaneous parameters. The data reviewer amended the EDD.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several analytes were detected in the laboratory method/preparation blanks. ICP serial dilution percent difference was >10% quality control limit.

Other factors affecting data quality: Matrix spike percent recovery <75% quality control limit for nitrite.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review" (02/94) and the NFESC guidelines "Navy IRCDQM" (09/99).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Edward Sedlmyer
Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: M

nsample	13GLM0201
samp_date	4/12/2002
lab_id	F12899-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	14400		
MAGNESIUM	1230		
MANGANESE	4.3		
POTASSIUM	1650	U	A
SODIUM	2210		

nsample	13GLM02D01
samp_date	4/12/2002
lab_id	F12899-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	3530		
MAGNESIUM	2310		
MANGANESE	8.1		
POTASSIUM	1240	U	A
SODIUM	4370		

nsample	13GLM02S01
samp_date	4/12/2002
lab_id	F12899-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	14600		
MAGNESIUM	1230		
MANGANESE	1.5		
POTASSIUM	1520	U	A
SODIUM	2940		

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: M

nsample	13GLM18D01
samp_date	4/12/2002
lab_id	F12899-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	2.8	U	
CALCIUM	761		
MAGNESIUM	532		
MANGANESE	17.0		
POTASSIUM	1260	U	A
SODIUM	2860		

nsample	13GLM18I01
samp_date	4/12/2002
lab_id	F12899-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
ARSENIC	14.2		
CALCIUM	659		
MAGNESIUM	806		
MANGANESE	35.6		
POTASSIUM	1760	U	A
SODIUM	2250		

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM0201
samp_date	4/12/02
lab_id	F12899-2
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	3.7		
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	5.8		

nsample	13GLM02D01
samp_date	4/12/02
lab_id	F12899-1
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	21.8		
TOTAL ORGANIC CARBON	5.6		

nsample	13GLM02S01
samp_date	4/12/02
lab_id	F12899-3
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	3		
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	5.8		

PROJ_NO: 2834

SDG: F12899 MEDIA: WATER DATA FRACTION: MISC

nsample	13GLM18D01
samp_date	4/12/02
lab_id	F12899-5
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	8		

nsample	13GLM18I01
samp_date	4/12/02
lab_id	F12899-4
qc_type	NM
units	MG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	ValQual	QualCode
CHLORIDE	20	U	
NITRATE	0.10	U	
NITRITE	0.10	UJ	D
SULFATE	20	U	
TOTAL ORGANIC CARBON	8		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	14400	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	1230 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	4.3 B	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1650 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2210 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result > IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	3530	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	2310 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	8.1 B	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1240 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	4370 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	14600	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	1230 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	1.5 B	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1520 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2940 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	2.8 U	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	761 B	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	532 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	17.0	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1260 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2860 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	14.2	10	2.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Calcium	659 B	1000	3.8	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Magnesium	806 B	5000	9.9	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Manganese	35.6	15	0.16	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Potassium	1760 B	5000	14	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A
Sodium	2250 B	5000	150	ug/l	1	04/15/02	04/16/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM0201		
Lab Sample ID:	F12899-2	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	3.7	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02D01		
Lab Sample ID:	F12899-1	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	21.8	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.6	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM02S01		
Lab Sample ID:	F12899-3	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	3.0	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	5.8	2.0	mg/l	2	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18I01		
Lab Sample ID:	F12899-4	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	13GLM18D01		
Lab Sample ID:	F12899-5	**Date Sampled:**	04/12/02
Matrix:	AQ - Ground Water	**Date Received:**	04/13/02
		Percent Solids:	n/a
Project:	CSS Panama City-N2834(CTO-0184)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Chloride	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	04/13/02	LL	EPA 300/SW846 9056
Sulfate	<20	20	mg/l	1	04/19/02	LL	EPA 300/SW846 9056
Total Organic Carbon	8.0	4.0	mg/l	4	05/02/02	ATX	EPA 415.1

RL = Reporting Limit

APPENDIX C

SUPPORT DOCUMENTATION

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

Sample Summary

Tetra-Tech, NUS

Job No: F12899

CSS Panama City-N2834(CTO-0184)
Project No: WORK RELEASE#PC-1842

Sample Number	Collected Date	Collected Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F12899-1	04/12/02	00:00 JB	04/13/02	AQ	Ground Water	13GLM02D01
F12899-2	04/12/02	09:30 JB	04/13/02	AQ	Ground Water	13GLM0201
F12899-3	04/12/02	08:30 JB	04/13/02	AQ	Ground Water	13GLM02S01
F12899-4	04/12/02	08:40 JB	04/13/02	AQ	Ground Water	13GLM18I01
F12899-5	04/12/02	09:45 JB	04/13/02	AQ	Ground Water	13GLM18D01

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: Tetra Tech, NUS
Site: CSS Panama City-N2834 (CTO-184)
Report Date: May 13, 2002
Job Number: F12899

5 samples were collected on April 12, 2002, and received on April 13, 2002. Samples were properly cooled, preserved and intact. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846-8260B:

- The MS/MSD associated with analytical batch number VG500 had several recoveries above acceptance limits. All RPDs were within acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.
- The MS/MSD associated with analytical batch number VG498 had one RPD above acceptance limits. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

SVOC, SW846-8270C:

- The Blank Spike associated with analytical batch number SW527 had several recoveries below acceptance limits. The Blank Spike was reanalyzed under batch SW528, with similar results. All associated samples were re-extracted outside of holding time to confirm results. The re-extracted Blank Spike was within acceptance limits and all sample results confirmed. Only the original analysis, extracted within hold, has been reported. All samples have been footnoted accordingly.

Metals: SW-846, 6010B

- The Serial Dilution associated with analytical batch MP4337 had several RPDs above acceptance limits. All high RPDs were either due to low duplicate and sample concentrations and/or matrix interference. The Blank Spike found these metals to be within acceptance limits and the Method Blank free of interference from this compound. Data not adversely affected.

General Chemistry: Nitrite

- The MS associated with analytical batch number GP3113/GN9279 had one recovery below acceptance limits. The spike recovery indicates a possible matrix interference and/or sample nonhomogeneity. The Blank spike was within acceptance limits. The Method Blank was free of interference from this compound. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. ALSE routinely reports Organic target analytes down to 1/2 the Reporting Level. These positive results are flagged with a "J" qualifier. It is recommended by Accutest

Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Date: May 13, 2002

Sue O. Bell, Project Manager (signature on file)

FEDEX AIRBILL 8311 5252 8692

ACCUTEST®

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

CLIENT INFORMATION

NAME: Tetra Tech NUS, Inc.
ADDRESS: 1401 Oven Park Dr. #201
CITY, STATE, ZIP: Tallahassee, FL 32308
SEND REPORT TO:
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: CSS Panama City
LOCATION: Panama City, FL
PROJECT NO.: 2834
FAX #: 850-385-9860

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOC	TCL SVOC	Metals	Dissolved Gases	Cl, SO4, NO2, NO3	TOC	LAB USE ONLY
	13GLM02D01	4/12/02		JB	GW	11	X		X		X	3	2	1	3	1	1	
	13GLM0201		0930			11	X		X		X	3	2	1	3	1	1	
	13GLM0201MS		0930			6	X		X		X	3	2	1	Ø	Ø	Ø	
	13GLM0201MD		0930			6	X		X		X	3	2	1	Ø	Ø	Ø	
	13GLM02S01		0930			11	X		X		X	3	2	1	3	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [x] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4-12-02	1.	2.		2. Miranda Maupot
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 3.2 C

FEDEX AIRBILL # 8311 5252 8692

CHAIN OF CUSTODY

ACCUTEST

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F12898
ACCUTEST QUOTE #: F12899

6.0.03

0008

CLIENT INFORMATION

NAME: TETRA TECH NUS
ADDRESS: 1401 OVEN PARK DR SUITE-201
CITY, STATE, ZIP: TALLAHASSEE FL 32312
SEND REPORT TO: GERALD WALKER
PHONE #: 850-385-9899

FACILITY INFORMATION

PROJECT NAME: PCY RFI
LOCATION: AOC-1
PROJECT NO.: N2834
FAX #:

ANALYTICAL INFORMATION — contID

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	TCL VOCs (8260B)	TCL SVOCs/PAHs (8270C)	Select Metals (As, Na, Mg, K, Mn, Ca)	TOC	Anions (NO2, NO3, SO4)	Dissolved Gases	LAB USE ONLY
1 MS	13GLM18I01	4/12/02	8:40	MTA JJ	GW	11	7	1	1	1	3	3	2	1	1	1	3	
1 4/13	13GLM18D01	↓	9:45	↓	↓	11	7	1	1	1	3	3	2	1	1	1	3	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [x] OTHER (SPECIFY) TTNUS

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	4/12/02	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐

TEMPERATURE 3.2° 5.2° C

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F12899

Client/Project: Tetra Tech / CSS Panama City

Date/Time Received: 4/13/02 0930 Total Number of Coolers 2

Method of Delivery: FedEx Greyhound UPS Pickup Delivery Other

Air Bill Number: 8311 5252 8692

Cooler Temperatures: 3.2, 5.2

Custody Seals Intact?	YES	NO	
Trip Blank Intact?	YES	NO	NA
Chain of Custody Provided?	YES	NO	
Chain of Custody Match Bottles?	YES	NO	
Sample Labels Present?	YES	NO	
Are All Bottles Unbroken?	YES	NO	
Proper Preservative?	YES	NO	
Correct Containers Used?	YES	NO	
Sufficient Sample Volume?	YES	NO	
Number of Encores			

Comments:

Sample #5 - 1 bottle for SVOC was received broken.

Signature: Amanda [illegible] Date: 4/13/02

Rev. 08/28/01 SI

F12899

HOLDING TIME

05/16/02

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	13GLM0201	F12899-2	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
%	13GLM02D01	GP3127-S2	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	CL	04/12/02	04/19/02	04/19/02	7	0	7
%	13GLM0201	F12899-2DUP	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	ETHA	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	ETHA	04/12/02	/ /	04/25/02	0	0	13
%	F12939-1DUP	F12939-1DUP	DUPLICATE	F12899	ETHA	04/25/02	/ /	04/25/02	0	0	0
%	GXY120-BS	GXY120-BS	BSP	F12899	ETHA	04/23/02	/ /	04/23/02	0	0	0
%	GXY122-BS	GXY122-BS	BSP	F12899	ETHA	04/25/02	/ /	04/25/02	0	0	0
UG/L	VBLK1	GXY122-MB	M_BLANK	F12899	ETHA	04/25/02	/ /	04/25/02	0	0	0
%	13GLM0201	F12899-2DUP	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	ETHE	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	ETHE	04/12/02	/ /	04/25/02	0	0	13
%	F12939-1DUP	F12939-1DUP	DUPLICATE	F12899	ETHE	04/25/02	/ /	04/25/02	0	0	0
%	GXY120-BS	GXY120-BS	BSP	F12899	ETHE	04/23/02	/ /	04/23/02	0	0	0
%	GXY122-BS	GXY122-BS	BSP	F12899	ETHE	04/25/02	/ /	04/25/02	0	0	0
UG/L	VBLK1	GXY122-MB	M_BLANK	F12899	ETHE	04/23/02	/ /	04/25/02	0	0	2
%	13GLM0201	MP4337-SD1	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	M	04/12/02	04/15/02	04/16/02	3	1	4
%	13GLM0201	F12899-2DUP	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM02S01	F12899-3	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	METH	04/12/02	/ /	04/23/02	0	0	11
UG/L	13GLM18I01	F12899-4	NORMAL	F12899	METH	04/12/02	/ /	04/25/02	0	0	13
%	F12939-1DUP	F12939-1DUP	DUPLICATE	F12899	METH	04/25/02	/ /	04/25/02	0	0	0
%	GXY120-BS	GXY120-BS	BSP	F12899	METH	04/23/02	/ /	04/23/02	0	0	0
%	GXY122-BS	GXY122-BS	BSP	F12899	METH	04/25/02	/ /	04/25/02	0	0	0
UG/L	VBLK1	GXY122-MB	M_BLANK	F12899	METH	04/23/02	/ /	04/25/02	0	0	2
%	13GLM0201	GP3113-S2	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02D01	F12899-1	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	NTA	04/12/02	04/13/02	04/13/02	1	0	1
%	13GLM0201	GP3113-S2	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02D01	F12899-1	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	NTI	04/12/02	04/13/02	04/13/02	1	0	1
%	13GLM0201	F12899-2	NORMAL	F12899	OS	04/12/02	04/25/02	04/25/02	13	0	13
%	13GLM02D01	F12899-1	NORMAL	F12899	OS	04/12/02	04/25/02	04/26/02	13	1	14
%	13GLM02S01	F12899-3	NORMAL	F12899	OS	04/12/02	04/25/02	04/26/02	13	1	14
%	13GLM18D01	F12899-5	NORMAL	F12899	OS	04/12/02	04/18/02	04/24/02	6	6	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	13GLM18I01	F12899-4	NORMAL	F12899	OS	04/12/02	04/25/02	04/26/02	13	1	14
%	13GLM0201	F12899-2MSD	NORMAL	F12899	OV	04/12/02	/ /	04/16/02	0	0	4
UG/L	13GLM02D01	F12899-1	NORMAL	F12899	OV	04/12/02	/ /	04/17/02	0	0	5
%	13GLM02S01	F12899-3	NORMAL	F12899	OV	04/12/02	/ /	04/16/02	0	0	4
UG/L	13GLM18D01	F12899-5	NORMAL	F12899	OV	04/12/02	/ /	04/17/02	0	0	5
%	13GLM18I01	F12899-4	NORMAL	F12899	OV	04/12/02	/ /	04/16/02	0	0	4
UG/L	VBLK1	VG500-MB	M_BLANK	F12899	OV	04/23/02	/ /	04/17/02	0	0	-6
MG/L	13GLM0201	F12899-2	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
%	13GLM02D01	GP3127-S2	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	SO4	04/12/02	04/19/02	04/19/02	7	0	7
MG/L	13GLM0201	F12899-2	DUPLICATE	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM02D01	F12899-1	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM02S01	F12899-3	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM18D01	F12899-5	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20
MG/L	13GLM18I01	F12899-4	NORMAL	F12899	TOC	04/12/02	/ /	05/02/02	0	0	20

13GLM0201

Method: TRACE6 Sample Name: F12899-2 Operator: DM
Run Time: 04/16/02 11:16 Filename: R0416M5
Mode: CONC Type: S Corr. Factor: 1.00000
Lab ID.: Cust. Smpl. ID.: Cust. ID.:

Elems	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	.2409	.0010	.0053	-.0001	14.37
SDev	.0013	.0111	.0024	.0002	.0003	.0791
%RSD	109.7	4.611	228.4	3.164	223.1	.5508

Ca = 14.37 mg/Kg
14,400 ug/Kg

Elems	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0005	-.0000	.0058	.4292	1.652
SDev	.0001	.0008	.0003	.0003	.0196	.0393
%RSD	24.35	158.7	754.2	5.304	4.559	2.376

Elems	Mg2790	Mn2576	Mo2020	Na3302	Ni2316	2203/1
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.227	.0043	.0003	2.207	-.0001	.0014
SDev	.0039	.0001	.0003	.1283	.0007	.006
%RSD	.3204	2.368	105.5	5.814	1020	412.2

Elems	2203/2	Pb2203	Se1960	Sb2068	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0028	.0031	.0000	.0005	.0021
SDev	.0042	.0009	.0027	.0034	.0072	.0047
%RSD	1180	30.51	85.95	35670	1531	225.1

Elems	Sn1899	V 2924	Zn2062	Tl1908
Units	ppm	ppm	ppm	ppm
Avge	-.0000	.0013	.0011	-.0069
SDev	.001	.0006	.0004	.0012
%RSD	2585	48.58	36.47	17.43

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC
QC Limits: result < RL

Date Analyzed: 04/16/02
Run ID: MA2768

Methods: SW846 6010B
Units: mg/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.56	anr							
Antimony	0.0050	1.52	anr							
Arsenic	0.010	2.83	0.52	<10	0.020	<10	0.45	<10	0.90	<10
Barium	200	.49	anr							
Beryllium	5.0	.26	anr							
Cadmium	5.0	.26	anr							
Calcium	1000	3.82	4.5	<1000	20.6	<1000	12.8	<1000	16.7	<1000
Chromium	10	.43	anr							
Cobalt	50	.5	anr							
Copper	25	.44	anr							
Iron	300	7.11	anr							
Lead	0.0050	1.22	anr							
Magnesium	5000	9.88	7.6	<5000	17.2	<5000	11.2	<5000	10.5	<5000
Manganese	15	.16	0.23	<15	0.0	<15	0.0	<15	0.060	<15
Molybdenum	50	.75								
Nickel	40	1.08	anr							
Potassium	5000	13.9	671	<5000<	686	<5000<	704	<5000<	658	<5000<
Selenium	0.010	1.98	anr							
Silver	10	.55	anr							
Sodium	5000	145	164	<5000	64.6	<5000	75.1	<5000	-180	<5000
Thallium	0.010	1.49	anr							
Tin	50	2.18								
Vanadium	50	.47	anr							
Zinc	20	.59	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2768 Units: mg/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2.0	2030	101.5	2.0	2020	101.0	2.0	2060	103.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	40	42200	105.5	40	41800	104.5	40	43000	107.5
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	40	41600	104.0	40	41400	103.5	40	41900	104.8
Manganese	2.0	2080	104.0	2.0	2070	103.5	2.0	2100	105.0
Molybdenum									
Nickel	anr								
Potassium	40	40400	101.0	40	40300	100.8	40	39700	99.3
Selenium	anr								
Silver	anr								
Sodium	40	38300	95.8	40	38000	95.0	40	37800	94.5
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA2768 Units: mg/l

Metal	CCV True	CCV Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2.0	2080	104.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	40	43200	108.0
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	40	42100	105.3
Manganese	2.0	2110	105.5
Molybdenum			
Nickel	anr		
Potassium	40	39800	99.5
Selenium	anr		
Silver	anr		
Sodium	40	37800	94.5
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC
QC Limits: 70 to 130 % Recovery

Date Analyzed: 04/16/02
Run ID: MA2768

Methods: SW846 6010B
Units: mg/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	0.40		anr	
Antimony	0.010		anr	
Arsenic	0.020		18.4	92.0
Barium	0.40		anr	
Beryllium	0.010		anr	
Cadmium	0.010		anr	
Calcium	2.0		2040	102.0
Chromium	0.020		anr	
Cobalt	0.10		anr	
Copper	0.050		anr	
Iron	0.60		anr	
Lead	0.010		anr	
Magnesium	10		9680	96.8
Manganese	0.030		30.2	100.7
Molybdenum	0.10			
Nickel	0.080		anr	
Potassium	10		9430	94.3
Selenium	0.010		anr	
Silver	0.020		anr	
Sodium	10		8120	81.2
Thallium	0.020		anr	
Tin	0.10			
Vanadium	0.10		anr	
Zinc	0.040			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA2768 Units: mg/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500	500			517000	103.4	505000	101.0
Antimony		1.0			-0.080		1100	110.0
Arsenic		1.0			0.040		1050	105.0
Barium		0.50			1.3		537	107.4
Beryllium		0.50			-1.2		524	104.8
Cadmium		1.0			-1.1		919	91.9
Calcium	500	500			471000	94.2	461000	92.2
Chromium		0.50			2.9		521	104.2
Cobalt		0.50			0.42		518	103.6
Copper		0.50			-17		585	117.0
Iron	200	200			201000	100.5	195000	97.5
Lead		1.0			1.0		974	97.4
Magnesium	500	500			533000	106.6	520000	104.0
Manganese		0.50			-0.68		553	110.6
Molybdenum		1.0			-2.2		995	99.5
Nickel		1.0			-0.65		973	97.3
Potassium					658		3830	
Selenium		1.0			2.4		1050	105.0
Silver		1.0			0.32		1070	107.0
Sodium					140		2700	
Thallium		1.0			-5.5		999	99.9
Tin		1.0			-2.1		1000	100.0
Vanadium		0.50			1.5		509	101.8
Zinc		1.0			-2.2		933	93.3

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.56	anr	
Antimony	5.0	1.52	anr	
Arsenic	10	2.83	-2.3	<10
Barium	200	.49	anr	
Beryllium	5.0	.26	anr	
Cadmium	5.0	.26	anr	
Calcium	1000	3.82	6.0	<1000
Chromium	10	.43	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.11	anr	
Lead	5.0	1.22	anr	
Magnesium	5000	9.88	-11	<5000
Manganese	15	.16	-1.4	<15
Molybdenum	50	.75		
Nickel	40	1.08	anr	
Potassium	5000	13.9	651	<5000
Selenium	10	1.98	anr	
Silver	10	.55	anr	
Sodium	5000	145	-220	<5000
Thallium	10	1.49	anr	
Tin	50	2.18		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP4337: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:				04/15/02					04/15/02	
Metal	F12899-2 Original	MS	Spikelot MPFLICP	% Rec	QC Limits	F12899-2 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr									
Antimony	anr									
Arsenic	0.0	3880	4000	97.0	75-120	0.0	3820	4000	95.5	75-120
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium	14400	38700	25000	97.2	37-150	14400	38800	25000	97.6	37-150
Chromium	anr									
Cobalt	anr									
Copper	anr									
Iron	anr									
Lead	anr									
Magnesium	1230	25100	25000	95.5	73-127	1230	24900	25000	94.7	73-127
Manganese	4.3	1030	1000	102.6	74-122	4.3	1020	1000	101.6	74-122
Molybdenum										
Nickel	anr									
Potassium	1650	25400	25000	95.0	61-122	1650	25200	25000	94.2	61-122
Selenium	anr									
Silver	anr									
Sodium	2210	24900	25000	90.8	56-130	2210	24700	25000	90.0	56-130
Thallium	anr									
Tin										
Vanadium	anr									
Zinc	anr									

Associated samples MP4337: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	F12899-2 Original	DUP	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.0	0.0	NC	0-29
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	14400	14700	2.1	0-20
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	1230	1250	1.6	0-20
Manganese	4.3	4.9	13.0	0-30
Molybdenum				
Nickel	anr			
Potassium	1650	1660	0.6	0-20
Selenium	anr			
Silver	anr			
Sodium	2210	2200	0.5	0-20
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4337: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	3950	4000	98.8	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	25400	25000	101.6	80-120
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	24400	25000	97.6	80-120
Manganese	1050	1000	105.0	80-120
Molybdenum				
Nickel	anr			
Potassium	24400	25000	97.6	80-120
Selenium	anr			
Silver	anr			
Sodium	22800	25000	91.2	80-120
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4337: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

QC Batch ID: MP4337
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 04/15/02

Metal	F12899-2 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	14400	14700	2.2	0-10
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	1230	1250	1.6	0-10
Manganese	4.29	0.00	100.0(a)	0-10
Molybdenum				
Nickel	anr			
Potassium	1650	4350	163.5*(b	0-10
Selenium	anr			
Silver	anr			
Sodium	2210	3580	62.2 (a)	0-10
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP4337: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
Parameters: As,Ca,Mg,Mn,K,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	10:22	MA2768-ICV1	1		
	10:25	MA2768-ICB1	1		
	10:31	MA2768-CRI1	1		
	10:35	MA2768-ICSA1	1		
	10:38	MA2768-ICSA2	1		
	10:39	MA2768-ICSAB1	1		
	10:42	MA2768-CCV1	1		
	10:48	MA2768-CCB1	1		
	10:51	F12837-1	1		(sample used for QC only; not part of login F12899)
	10:55	MP4335-D1	1		
	10:59	MP4335-SD1	5		
	11:03	ZZZZZZ	1		
	11:07	MP4337-MB1	1		
	11:11	MP4337-B1	1		
	11:16	F12899-2	1		
	11:20	MP4337-S1	1		
	11:24	MP4337-S2	1		
	11:30	MP4337-D1	1		
	11:34	MA2768-CCV2	1		
	11:39	MA2768-CCB2	1		
	11:43	MP4337-SD1	5		
	11:47	F12899-1	1		
	11:51	F12899-3	1		
	11:55	F12899-4	1		
	11:59	F12899-5	1		
---------->	Last reportable sample/prep for job F12899				
	12:03	ZZZZZZ	1		
	12:07	ZZZZZZ	1		
	12:10	ZZZZZZ	1		
	12:14	ZZZZZZ	1		
	12:18	ZZZZZZ	1		
	12:22	MA2768-CCV3	1		
	12:27	MA2768-CCB3	1		
---------->	Last reportable CCB for job F12899				
	12:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

File ID: IR0416M5.ASC Date Analyzed: 04/16/02 Methods: SW846 6010B
Analyst: DM Run ID: MA2768
Parameters: As,Ca,Mg,Mn,K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:35	ZZZZZZ	1		
12:39	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:10	MA2768-CCV4	1		
13:15	MA2768-CCB4	1		
13:19	MP4338-MB1	1		
13:23	MP4338-B1	1		
13:28	F12897-1	1		(sample used for QC only; not part of login F12899)
13:32	MP4338-S1	1		
13:37	MP4338-D1	1		
13:41	MP4338-SD1	5		
13:45	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:01	MA2768-CCV5	1		
14:06	MA2768-CCB5	1		
14:10	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:22	MA2768-CCV6	1		
14:27	MA2768-CCB6	1		

Refer to raw data for calibration curve and standards.

Metals Digestion Log: Water

Method of Digestion: SW846-3010A **Temp:** 93 **Thermometer ID** 46

	HNO_3	HCl
Added:		
Mfg:	Fisher	Fisher
Lot#	1101040	4101031

MP4337

Sample #	Init. Vol/Wt	Fin. Vol/Wt	Date	Comments
MB 4/15/02	50 mL	50 mL	4/15/02	
SB ↓	↓	↓	↓	1ml acc 254 + .25ml acc 257
MS F12899-2				+ .5ml mix 714
MSD F12899-2				↓
Dup F12899-2				
1 QC F12899-2				
2 F12899-1				
3 F12899-3				
4 F12899-4				
5 F12899-5				
6 F12870-1				
7 F12870-2				
8 F12870-3				
9 F12870-4				
10 F12870-5				
11 F12870-6				
12 F12870-7				
13 F12870-8				
14 F12898-1				
15 F12898-1A				
16 ~~F12898-1~~				F12891-1
17 F12891-2				
18 F12891-3				
19 F12891-4				
20 F12891-5	↓	↓	↓	

Analyst D Metzger **Date** 4/15/02

QC Review [illegible] **Date** 4/15/02

Rev. 07/23/01 SI

Page Number: 022

0492

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits
Chloride	GP3127/GN9319	20	<20	mg/l	97.2	90-110%
Fluoride	GP3127/GN9319	0.20	<0.20	mg/l	93.0	90-110%
Nitrogen, Nitrate	GP3113/GN9279	0.10	<0.10	mg/l	96.0	90-110%
Nitrogen, Nitrite	GP3113/GN9279	0.10	<0.10	mg/l	99.0	90-110%
Sulfate	GP3127/GN9319	20	<20	mg/l	94.1	90-110%

Associated Samples:
Batch GP3113: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5
Batch GP3127: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP3127/GN9319	F12899-1	mg/l	10.6	100	102	91.4	80-120%
Chloride	GP3127/GN9319	F12899-1	mg/l	10.6	100	102	91.4	80-120%
Fluoride	GP3127/GN9319	F12899-1	mg/l	<0.10	1	1.0	100.0	80-120%
Fluoride	GP3127/GN9319	F12899-1	mg/l	<0.10	1	1.0	100.0	80-120%
Nitrogen, Nitrate	GP3113/GN9279	F12899-2	mg/l	3.7	1	4.5	80.0	80-120%
Nitrogen, Nitrate	GP3113/GN9279	F12899-2	mg/l	3.7	1	4.6	90.0	80-120%
Nitrogen, Nitrite	GP3113/GN9279	F12899-2	mg/l	<0.050	1	0.70	70.0N(a)	80-120%
Nitrogen, Nitrite	GP3113/GN9279	F12899-2	mg/l	<0.050	1	0.70	70.0N(a)	80-120%
Sulfate	GP3127/GN9319	F12899-1	mg/l	21.8	100	110	88.2	80-120%
Sulfate	GP3127/GN9319	F12899-1	mg/l	21.8	100	110	88.2	80-120%

Associated Samples:
Batch GP3113: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5
Batch GP3127: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F12899
Account: TETRFLTA - Tetra-Tech, NUS
Project: TETRFLTA2893 - CSS Panama City-N2834(CTO-0184)

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP3127/GN9319	F12899-1	mg/l	10.6	10.6	0.0	0-20%
Fluoride	GP3127/GN9319	F12899-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP3113/GN9279	F12899-2	mg/l	3.7	3.7	0.0	0-20%
Nitrogen, Nitrite	GP3113/GN9279	F12899-2	mg/l	<0.050	<0.050	0.0	0-20%
Sulfate	GP3127/GN9319	F12899-1	mg/l	21.8	22.5	3.2	0-20%

Associated Samples:
Batch GP3113: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5
Batch GP3127: F12899-1, F12899-2, F12899-3, F12899-4, F12899-5

Appendix L

Risk Re-evaluation Tables

TABLE L-1
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 200:
SWMU 3
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
75-34-3	1,1-Dichloroethane	2/4	0.8 J	03GLM0202	NA	70	0.01	No
75-35-4	1,1-Dichloroethene	2/4	0.4 J	03GLM0202, 03GLM0402	NA	7	0.06	No
74-83-9	Bromomethane	1/4	2 J	03GLM05S02	NA	9.8	0.2	No
75-15-0	Carbon Disulfide	1/4	0.3 J	03GLM0402	NA	700	0.0004	No
Semivolatile Organic Compounds (ug/L)								
83-32-9	Acenaphthene	1/4	0.28	03GLM0402	NA	20	0.01	No
Metals (ug/L)								
7429-90-5	Aluminum	1/4	876	03GLM05S02	NA	200	4.4	Yes
7440-38-2	Arsenic	2/4	13.1	03GLM0202	NA	10	1.3	Yes
7440-39-3	Barium	4/4	257	03GLM0402	NA	2000	0.1	No
7440-70-2	Calcium	4/4	153000	03GLM0402	NA	NA	NA	No
7440-47-3	Chromium	1/4	1.9	03GLM05S02	NA	100	0.02	No
7440-50-8	Copper	2/4	17	03GLM0302	NA	1000	0.02	No
7439-89-6	Iron	4/4	6520	03GLM0202	NA	300	22	Yes
7439-95-4	Magnesium	4/4	405000	03GLM0402	NA	NA	NA	No
7439-96-5	Manganese	4/4	326	03GLM0402	NA	50	6.5	Yes
7439-97-6	Mercury	1/4	0.05	03GLM05S02	NA	2	0.03	No
7440-09-7	Potassium	3/4	133000	03GLM0402	NA	NA	NA	No
7440-23-5	Sodium	4/4	3330000	03GLM0402	NA	160000	21	Yes
7440-66-6	Zinc	2/4	65.8	03GLM0402	NA	5000	0.01	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.

Associated Samples
03GLM0202
03GLM0302
03GLM0402
03GLM05S02

TABLE L-2
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 200
SWMU 3
NAVAL SUPPORT ACTIVITY PANAMA CIT
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
75-34-3	1,1-Dichloroethane	2/4	0.8 J	03GLM0202	NA	NA	NA	No
75-35-4	1,1-Dichloroethene	2/4	0.4 J	03GLM0202, 03GLM0402	NA	3.2	0.1	No
74-83-9	Bromomethane	1/4	2 J	03GLM05S02	NA	35	0.06	No
75-15-0	Carbon Disulfide	1/4	0.3 J	03GLM0402	NA	110	0.003	No
Semivolatile Organic Compounds (ug/L)								
83-32-9	Acenaphthene	1/4	0.28	03GLM0402	NA	3	0.09	No
Metals (ug/L)								
7429-90-5	Aluminum	1/4	876	03GLM05S02	NA	1500	0.6	No
7440-38-2	Arsenic	2/4	13.1	03GLM0202	NA	50	0.3	No
7440-39-3	Barium	4/4	257	03GLM0402	NA	NA	NA	No
7440-70-2	Calcium	4/4	153000	03GLM0402	NA	NA	NA	No
7440-47-3	Chromium	1/4	1.9	03GLM05S02	NA	50	0.04	No
7440-50-8	Copper	2/4	17	03GLM0302	NA	2.9	5.9	Yes
7439-89-6	Iron	4/4	6520	03GLM0202	NA	300	22	Yes
7439-95-4	Magnesium	4/4	405000	03GLM0402	NA	NA	NA	No
7439-96-5	Manganese	4/4	326	03GLM0402	NA	NA	NA	No
7439-97-6	Mercury	1/4	0.05	03GLM05S02	NA	0.025	2.0	Yes
7440-09-7	Potassium	3/4	133000	03GLM0402	NA	NA	NA	No
7440-23-5	Sodium	4/4	3330000	03GLM0402	NA	NA	NA	No
7440-66-6	Zinc	2/4	65.8	03GLM0402	NA	86	0.8	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.

Associated Samples
03GLM0202
03GLM0302
03GLM0402
03GLM05S02

TABLE L-3
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 2004
SWMU 3
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
75-34-3	1,1-Dichloroethane	2/4	1.6	03GLM0403, 03GLM0403-D	NA	70	0.02	No
75-35-4	1,1-Dichloroethene	1/4	0.65 J	03GLM0403	NA	7	0.09	No
Metals (ug/L)								
7429-90-5	Aluminum	1/4	210	03GLM0503	NA	200	1.1	Yes
7440-39-3	Barium	4/4	244	03GLM0403-D	NA	2000	0.1	No
7440-70-2	Calcium	4/4	172000 J	03GLM0403, 03GLM0403-D	NA	NA	NA	No
7439-89-6	Iron	3/4	1270	03GLM0203	NA	300	4.2	Yes
7439-92-1	Lead	1/4	1.7	03GLM0503	NA	15	0.1	No
7439-95-4	Magnesium	4/4	434000	03GLM0403	NA	NA	NA	No
7439-96-5	Manganese	4/4	439	03GLM0403-D	NA	50	8.8	Yes
7440-09-7	Potassium	4/4	240000	03GLM0403	NA	NA	NA	No
7440-22-4	Silver	1/4	0.68	03GLM0303	NA	100	0.007	No
7440-23-5	Sodium	4/4	3530000	03GLM0403-D	NA	160000	22	Yes
7440-66-6	Zinc	3/4	29.8 J	03GLM0403-D	NA	5000	0.006	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC

1 - No background samples were availble.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.

Associated Samples
03GLM0203
03GLM0303
03GLM0303-D
03GLM0403
03GLM0403-D
03GLM0503

TABLE L-4
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 2004
SWMU 3
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
75-34-3	1,1-Dichloroethane	2/4	1.6	03GLM0403, 03GLM0403-D	NA	NA	NA	No
75-35-4	1,1-Dichloroethene	1/4	0.65 J	03GLM0403	NA	3.2	0.2	No
Metals (ug/L)								
7429-90-5	Aluminum	1/4	210	03GLM0503	NA	1500	0.1	No
7440-39-3	Barium	4/4	244	03GLM0403-D	NA	NA	NA	No
7440-70-2	Calcium	4/4	172000 J	03GLM0403, 03GLM0403-D	NA	NA	NA	No
7439-89-6	Iron	3/4	1270	03GLM0203	NA	300	4.2	Yes
7439-92-1	Lead	1/4	1.7	03GLM0503	NA	8.5	0.2	No
7439-95-4	Magnesium	4/4	434000	03GLM0403	NA	NA	NA	No
7439-96-5	Manganese	4/4	439	03GLM0403-D	NA	NA	NA	No
7440-09-7	Potassium	4/4	240000	03GLM0403	NA	NA	NA	No
7440-22-4	Silver	1/4	0.68	03GLM0303	NA	0.4	1.7	Yes
7440-23-5	Sodium	4/4	3530000	03GLM0403-D	NA	NA	NA	No
7440-66-6	Zinc	3/4	29.8 J	03GLM0403-D	NA	86	0.3	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC

1 - No background samples were availble.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.

Associated Samples
03GLM0203
03GLM0303
03GLM0303-D
03GLM0403
03GLM0403-D
03GLM0503

TABLE L-5
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 2003
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
95-50-1	1,2-Dichlorobenzene	1/9	0.5 J	10GLM01R01	NA	600	0.0008	No
74-83-9	Bromomethane	3/9	2 J	10GLM01R01, 10GLM05DR01	NA	9.8	0.2	No
75-15-0	Carbon Disulfide	5/9	0.5 J	10GLM0601	NA	700	0.0007	No
100-41-4	Ethylbenzene	1/9	0.4 J	10GLM01R01, 10GLM01R01-D	NA	30	0.01	No
98-82-8	Isopropylbenzene	1/9	0.6 J	10GLM01R01-D	NA	0.8	0.8	No
127-18-4	Tetrachloroethene	1/9	0.7 J	10GLM01R01	NA	3	0.2	No
108-88-3	Toluene	2/9	0.3 J	10GLM0801	NA	40	0.008	No
1330-20-7	Total Xylenes	1/9	2 J	10GLM01R01, 10GLM01R01-D	NA	20	0.1	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	2/9	24	10GLM01R01	NA	28	0.9	No
91-57-6	2-Methylnaphthalene	1/9	35 J	10GLM01R01	NA	28	1.3	Yes
106-44-5	4-Methylphenol	1/7	5 J	10GLM01R01	NA	3.5	1.4	Yes
83-32-9	Acenaphthene	2/9	2.8 J	10GLM01R01-D	NA	20	0.1	No
117-81-7	Bis(2-ethylhexyl)phthalate	2/9	42 J	10GLM01R01-D	NA	6	7.0	Yes
86-73-7	Fluorene	2/9	2.1 J	10GLM01R01-D	NA	280	0.008	No
91-20-3	Naphthalene	2/9	27 J	10GLM01R01	NA	14	1.9	Yes
85-01-8	Phenanthrene	1/9	2.5 J	10GLM01R01	NA	210	0.01	No
Metals (ug/L)								
7440-38-2	Arsenic	2/9	90.3	10GLM04R01	NA	10	9.0	Yes
7440-70-2	Calcium	9/9	152000	10GLM0202	NA	NA	NA	No
7439-95-4	Magnesium	9/9	38800	10GLM04R01	NA	NA	NA	No
7439-96-5	Manganese	9/9	996	10GLM04R01	NA	50	20	Yes
7440-09-7	Potassium	6/9	11800	10GLM05DR01	NA	NA	NA	No
7440-23-5	Sodium	9/9	97800	10GLM05DR01	NA	160000	0.6	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	6/9	1700	10GLM05DR01	NA	250000	0.007	No
14797-55-8	Nitrate	4/9	4.6 J	10GLM03S02	NA	10000	0.0005	No
14797-65-0	Nitrite	1/9	0.1	10GLM03S02	NA	1000	0.0001	No
	Nitrite/Nitrate	1/1	4.6	10GLM03S02	NA	10000	0.0005	No
14808-79-8	Sulfate	9/9	1800	10GLM04R01	NA	250000	0.007	No
	Total Organic Carbon	8/9	24	10GLM0801	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL and, for metals,

Associated Samples
10GLM01R01
10GLM01R01-D
10GLM0202
10GLM03S02
10GLM04R01
10GLM05DR01
10GLM0601
10GLM0702
10GLM0801
10GLM0901

TABLE L-6
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 2003
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
95-50-1	1,2-Dichlorobenzene	1/9	0.5 J	10GLM01R01	NA	99	0.005	No
74-83-9	Bromomethane	3/9	2 J	10GLM01R01, 10GLM05DR01	NA	35	0.06	No
75-15-0	Carbon Disulfide	5/9	0.5 J	10GLM0601	NA	110	0.005	No
100-41-4	Ethylbenzene	1/9	0.4 J	10GLM01R01, 10GLM01R01-D	NA	610	0.0007	No
98-82-8	Isopropylbenzene	1/9	0.6 J	10GLM01R01-D	NA	260	0.002	No
127-18-4	Tetrachloroethene	1/9	0.7 J	10GLM01R01	NA	8.85	0.08	No
108-88-3	Toluene	2/9	0.3 J	10GLM0801	NA	480	0.0006	No
1330-20-7	Total Xylenes	1/9	2 J	10GLM01R01, 10GLM01R01-D	NA	370	0.005	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	2/9	24	10GLM01R01	NA	95	0.3	No
91-57-6	2-Methylnaphthalene	1/9	35 J	10GLM01R01	NA	30	1.2	Yes
106-44-5	4-Methylphenol	1/7	5 J	10GLM01R01	NA	70	0.07	No
83-32-9	Acenaphthene	2/9	2.8 J	10GLM01R01-D	NA	3	0.9	No
117-81-7	Bis(2-ethylhexyl)phthalate	2/9	42 J	10GLM01R01-D	NA	2.2	19	Yes
86-73-7	Fluorene	2/9	2.1 J	10GLM01R01-D	NA	30	0.07	No
91-20-3	Naphthalene	2/9	27 J	10GLM01R01	NA	26	1.0	Yes
85-01-8	Phenanthrene	1/9	2.5 J	10GLM01R01	NA	0.031	81	Yes
Metals (ug/L)								
7440-38-2	Arsenic	2/9	90.3	10GLM04R01	NA	50	1.8	Yes
7440-70-2	Calcium	9/9	152000	10GLM0202	NA	NA	NA	No
7439-95-4	Magnesium	9/9	38800	10GLM04R01	NA	NA	NA	No
7439-96-5	Manganese	9/9	996	10GLM04R01	NA	NA	NA	No
7440-09-7	Potassium	6/9	11800	10GLM05DR01	NA	NA	NA	No
7440-23-5	Sodium	9/9	97800	10GLM05DR01	NA	NA	NA	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	6/9	1700	10GLM05DR01	NA	NA	NA	No
14797-55-8	Nitrate	4/9	4.6 J	10GLM03S02	NA	NA	NA	No
14797-65-0	Nitrite	1/9	0.1	10GLM03S02	NA	NA	NA	No
TTNUS029	Nitrite/Nitrate	1/1	4.6	10GLM03S02	NA	NA	NA	No
14808-79-8	Sulfate	9/9	1800	10GLM04R01	NA	NA	NA	No
TTNUS003	Total Organic Carbon	8/9	24	10GLM0801	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.

Associated Samples
10GLM01R01
10GLM01R01-D
10GLM0202
10GLM03S02
10GLM04R01
10GLM05DR01
10GLM0601
10GLM0702
10GLM0801
10GLM0901

TABLE L-7
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 2004
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
75-34-3	1,1-Dichloroethane	1/10	1.2	10GLM08R02	NA	70	0.02	No
67-64-1	Acetone	1/10	11.4 J	10GLM08R02	NA	6300	0.002	No
71-43-2	Benzene	1/10	0.64 J	10GLM08R02	NA	1	0.6	No
156-59-2	cis-1,2-Dichloroethene	1/10	1.4	10GLM08R02	NA	70	0.02	No
110-82-7	Cyclohexane	1/10	0.85 J	10GLM08R02	NA	NA	NA	No
100-41-4	Ethylbenzene	2/10	0.56 J	10GLM01R02-D	NA	30	0.02	No
98-82-8	Isopropylbenzene	2/10	1.1	10GLM08R02	NA	0.8	1.4	Yes
108-87-2	Methyl Cyclohexane	1/10	0.69 J	10GLM08R02	NA	NA	NA	No
127-18-4	Tetrachloroethene	1/10	0.58 J	10GLM01R02-D	NA	3	0.2	No
108-88-3	Toluene	1/10	1.4	10GLM08R02	NA	40	0.04	No
540-59-0	Total 1,2-Dichloroethene	1/10	1.4 J	10GLM08R02	NA	63	0.02	No
1330-20-7	Total Xylenes	2/10	2.4 J	10GLM01R02-D	NA	20	0.1	No
79-01-6	Trichloroethene	2/10	0.65 J	10GLM01R02-D	NA	3	0.2	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	2/10	25.3	10GLM01R02-D	NA	28	0.9	No
91-57-6	2-Methylnaphthalene	2/10	35.9	10GLM01R02-D	NA	28	1.3	Yes
83-32-9	Acenaphthene	2/10	2.5	10GLM01R02-D	NA	20	0.1	No
86-73-7	Fluorene	2/10	2.2	10GLM01R02-D	NA	280	0.008	No
91-20-3	Naphthalene	2/10	26.7	10GLM01R02-D	NA	14	1.9	Yes
85-01-8	Phenanthrene	1/10	0.82 J	10GLM01R02-D	NA	210	0.004	No
92-52-4	1,1-Biphenyl	1/10	1.2 J	10GLM01R02	NA	0.5	2.4	Yes
105-67-9	2,4-Dimethylphenol	1/10	3.7 J	10GLM01R02	NA	140	0.03	No
	3&4-Methylphenol	1/10	7.9	10GLM01R02	NA	3.5 [4]	2.3	Yes
Metals (ug/L)								
7440-38-2	Arsenic	1/10	18.6	10GLM0203	NA	10	1.9	Yes
7440-70-2	Calcium	10/10	113000 J	10GLM1001-D	NA	NA	NA	No
7440-47-3	Chromium	2/10	3.6	10GLM0602	NA	100	0.04	No
7439-92-1	Lead	2/10	2.4	10GLM03S03	NA	15	0.2	No
7439-95-4	Magnesium	10/10	19600 J	10GLM05DR02	NA	NA	NA	No
7439-96-5	Manganese	10/10	250	10GLM04R02	NA	50	5.0	Yes
7440-09-7	Potassium	10/10	7310	10GLM05DR02	NA	NA	NA	No
7440-23-5	Sodium	10/10	75000	10GLM05DR02	NA	160000	0.5	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	10/10	107	10GLM05DR02	NA	250000	0.0004	No
14797-65-0	Nitrite	1/10	0.15	10GLM03S03	NA	1000	0.0002	No
14808-79-8	Sulfate	10/10	331	10GLM04R02	NA	250000	0.001	No
	Total Organic Carbon	10/10	28.8	10GLM01R02	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples are available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL and, for metals.
4 - Value is for 4-methylphenol.

Associated Samples
10GLM01R02
10GLM01R02-D
10GLM0203
10GLM03S03
10GLM04R02
10GLM05DR02
10GLM0602
10GLM0703
10GLM08R02
10GLM0902
10GLM1001
10GLM1001-D

TABLE L-8
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 2004
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
75-34-3	1,1-Dichloroethane	1/10	1.2	10GLM08R02	NA	NA	NA	No
67-64-1	Acetone	1/10	11.4 J	10GLM08R02	NA	1700	0.007	No
71-43-2	Benzene	1/10	0.64 J	10GLM08R02	NA	71.28	0.009	No
156-59-2	cis-1,2-Dichloroethene	1/10	1.4	10GLM08R02	NA	NA	NA	No
110-82-7	Cyclohexane	1/10	0.85 J	10GLM08R02	NA	NA	NA	No
100-41-4	Ethylbenzene	2/10	0.56 J	10GLM01R02-D	NA	610	0.0009	No
98-82-8	Isopropylbenzene	2/10	1.1	10GLM08R02	NA	260	0.004	No
108-87-2	Methyl Cyclohexane	1/10	0.69 J	10GLM08R02	NA	NA	NA	No
127-18-4	Tetrachloroethene	1/10	0.58 J	10GLM01R02-D	NA	8.85	0.07	No
108-88-3	Toluene	1/10	1.4	10GLM08R02	NA	480	0.003	No
540-59-0	Total 1,2-Dichloroethene	1/10	1.4 J	10GLM08R02	NA	7000	0.0002	No
1330-20-7	Total Xylenes	2/10	2.4 J	10GLM01R02-D	NA	370	0.006	No
79-01-6	Trichloroethene	2/10	0.65 J	10GLM01R02-D	NA	80.7	0.008	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	2/10	25.3	10GLM01R02-D	NA	95	0.3	No
91-57-6	2-Methylnaphthalene	2/10	35.9	10GLM01R02-D	NA	30	1.2	Yes
83-32-9	Acenaphthene	2/10	2.5	10GLM01R02-D	NA	3	0.8	No
86-73-7	Fluorene	2/10	2.2	10GLM01R02-D	NA	30	0.07	No
91-20-3	Naphthalene	2/10	26.7	10GLM01R02-D	NA	26	1.0	Yes
85-01-8	Phenanthrene	1/10	0.82 J	10GLM01R02-D	NA	0.031	26	Yes
92-52-4	1,1-Biphenyl	1/10	1.2 J	10GLM01R02	NA	18	0.07	No
105-67-9	2,4-Dimethylphenol	1/10	3.7 J	10GLM01R02	NA	160	0.02	No
	3&4-Methylphenol	1/10	7.9	10GLM01R02	NA	70 [4]	0.1	No
Metals (ug/L)								
7440-38-2	Arsenic	1/10	18.6	10GLM0203	NA	50	0.4	No
7440-70-2	Calcium	10/10	113000 J	10GLM1001-D	NA	NA	NA	No
7440-47-3	Chromium	2/10	3.6	10GLM0602	NA	50	0.07	No
7439-92-1	Lead	2/10	2.4	10GLM03S03	NA	8.5	0.3	No
7439-95-4	Magnesium	10/10	19600 J	10GLM05DR02	NA	NA	NA	No
7439-96-5	Manganese	10/10	250	10GLM04R02	NA	NA	NA	No
7440-09-7	Potassium	10/10	7310	10GLM05DR02	NA	NA	NA	No
7440-23-5	Sodium	10/10	75000	10GLM05DR02	NA	NA	NA	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	10/10	107	10GLM05DR02	NA	NA	NA	No
14797-65-0	Nitrite	1/10	0.15	10GLM03S03	NA	NA	NA	No
14808-79-8	Sulfate	10/10	331	10GLM04R02	NA	NA	NA	No
TTNUS003	Total Organic Carbon	10/10	28.8	10GLM01R02	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples are available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.
4 - Value is for 4-methylphenol.

Associated Samples
10GLM01R02
10GLM01R02-D
10GLM0203
10GLM03S03
10GLM04R02
10GLM05DR02
10GLM0602
10GLM0703
10GLM08R02
10GLM0902
10GLM1001
10GLM1001-D

TABLE L-9
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Residential SCTL-Direct Contact[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (mg/kg)								
127-18-4	Tetrachloroethene	2/6	0.007	PCYS10Z904	NA	8.8	0.0008	No
1330-20-7	Total Xylenes	1/6	0.016 J	PCYS10Z1406	NA	130	0.0001	No
75-69-4	Trichlorofluoromethane	2/6	0.03	PCYS10Z1404	NA	270	0.0001	No
Semivolatile Organic Compounds (mg/kg)								
91-57-6	2-Methylnaphthalene	1/6	0.38 J	PCYS10Z1406	NA	210	0.002	No
83-32-9	Acenaphthene	1/6	0.033 J	PCYS10Z506	NA	2400	0.00001	No
98-86-2	Acetophenone	1/6	0.28 J	PCYS10Z1406	NA	3900	0.00007	No
117-81-7	Bis(2-ethylhexyl)phthalate	6/6	0.96 J	PCYS10Z904	NA	72	0.01	No
206-44-0	Fluoranthene	1/6	0.042 J	PCYS10Z906	NA	3200	0.00001	No
86-73-7	Fluorene	1/6	0.025 J	PCYS10Z506	NA	2600	0.000010	No
85-01-8	Phenanthrene	2/6	0.1 J	PCYS10Z1406	NA	2200	0.00005	No
129-00-0	Pyrene	4/6	0.25 J	PCYS10Z906	NA	2400	0.0001	No
	Carcinogenic PAHs	2/6	0.462	PCYS10Z506	NA	0.1	5	Yes
Metals (mg/kg)								
7429-90-5	Aluminum	4/4	1500	10BL0101	NA	80000	0.02	No
7440-36-0	Antimony	1/4	1.1 J	10BL0101	NA	27	0.04	No
7440-38-2	Arsenic	10/10	0.94	PCYS10Z1406	NA	2.1	0.4	No
7440-39-3	Barium	4/4	2.7	10BL0101	NA	120	0.02	No
7440-43-9	Cadmium	7/10	0.11	10BL0201	NA	82	0.001	No
7440-70-2	Calcium	4/4	1510	10BL0401	NA	NA	NA	No
7440-47-3	Chromium	10/10	6.4	PCYS10Z506	NA	NA	NA	No
7440-48-4	Cobalt	3/4	0.14	10BL0201	NA	1700	0.00008	No
7440-50-8	Copper	4/4	6.3	10BL0101	NA	150	0.04	No
7439-89-6	Iron	4/4	1960 J	10BL0101	NA	53000	0.04	No
7439-92-1	Lead	10/10	15.9	10BL0101	NA	400	0.04	No
7439-95-4	Magnesium	4/4	124	10BL0101, 10BL0201	NA	NA	NA	No
7439-96-5	Manganese	4/4	8	10BL0201	NA	3500	0.002	No
7439-97-6	Mercury	3/4	0.14	10BL0101	NA	3	0.05	No
7440-02-0	Nickel	4/4	1.1	10BL0101, 10BL0201	NA	340	0.003	No
7440-09-7	Potassium	4/4	22.4	10BL0101	NA	NA	NA	No
7782-49-2	Selenium	2/4	0.71	10BL0201	NA	440	0.002	No
7440-62-2	Vanadium	4/4	3.6	10BL0101	NA	67	0.05	No
7440-66-6	Zinc	4/4	43.7	10BL0201	NA	26000	0.002	No
Petroleum Hydrocarbons (mg/kg)								
TTNUS001	Total Petroleum Hydrocarbons	6/9	9500	PCYS10Z906	NA	460	21	Yes

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

Footnotes:
1 - No background samples were available.
2 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned SCTL.

Associated Samples
10BL0101
10BL0201
10BL0301
10BL0401
PCYS10Z1404
PCYS10Z1406
PCYS10Z306
PCYS10Z506
PCYS10Z904
PCYS10Z906

TABLE L-10
FLORIDA LEVEL 2 (INDUSTRIAL) DIRECT CONTACT EVALUATION
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Industrial SCTL-Direct Contact[2]	Ratio of Maximum Concentration/ Non-apportioned Industrial SCTL	Is Chemical a Potential Level 2 COC?[3]
Volatile Organic Compounds (mg/kg)								
127-18-4	Tetrachloroethene	2/6	0.007	PCYS10Z904	NA	18	0.0004	No
1330-20-7	Total Xylenes	1/6	0.016 J	PCYS10Z1406	NA	700	0.00002	No
75-69-4	Trichlorofluoromethane	2/6	0.03	PCYS10Z1404	NA	1500	0.00002	No
Semivolatile Organic Compounds (mg/kg)								
91-57-6	2-Methylnaphthalene	1/6	0.38 J	PCYS10Z1406	NA	2100	0.0002	No
83-32-9	Acenaphthene	1/6	0.033 J	PCYS10Z506	NA	20000	0.000002	No
98-86-2	Acetophenone	1/6	0.28 J	PCYS10Z1406	NA	32000	0.000009	No
117-81-7	Bis(2-ethylhexyl)phthalate	6/6	0.96 J	PCYS10Z904	NA	390	0.002	No
206-44-0	Fluoranthene	1/6	0.042 J	PCYS10Z906	NA	59000	0.0000007	No
86-73-7	Fluorene	1/6	0.025 J	PCYS10Z506	NA	33000	0.0000008	No
85-01-8	Phenanthrene	2/6	0.1 J	PCYS10Z1406	NA	36000	0.000003	No
129-00-0	Pyrene	4/6	0.25 J	PCYS10Z906	NA	45000	0.000006	No
	Carcinogenic PAHs	2/6	0.462	PCYS10Z506	NA	0.7	0.7	No
Metals (mg/kg)								
7429-90-5	Aluminum	4/4	1500	10BL0101	NA	NA	NA	No
7440-36-0	Antimony	1/4	1.1 J	10BL0101	NA	370	0.003	No
7440-38-2	Arsenic	10/10	0.94	PCYS10Z1406	NA	12	0.08	No
7440-39-3	Barium	4/4	2.7	10BL0101	NA	130000	0.00002	No
7440-43-9	Cadmium	7/10	0.11	10BL0201	NA	1700	0.00006	No
7440-70-2	Calcium	4/4	1510	10BL0401	NA	NA	NA	No
7440-47-3	Chromium	10/10	6.4	PCYS10Z506	NA	470	0.01	No
7440-48-4	Cobalt	3/4	0.14	10BL0201	NA	42000	0.000003	No
7440-50-8	Copper	4/4	6.3	10BL0101	NA	89000	0.00007	No
7439-89-6	Iron	4/4	1960 J	10BL0101	NA	NA	NA	No
7439-92-1	Lead	10/10	15.9	10BL0101	NA	1400	0.01	No
7439-95-4	Magnesium	4/4	124	10BL0101; 10BL0201	NA	NA	NA	No
7439-96-5	Manganese	4/4	8	10BL0201	NA	43000	0.0002	No
7439-97-6	Mercury	3/4	0.14	10BL0101	NA	17	0.008	No
7440-02-0	Nickel	4/4	1.1	10BL0101; 10BL0201	NA	35000	0.00003	No
7440-09-7	Potassium	4/4	22.4	10BL0101	NA	NA	NA	No
7782-49-2	Selenium	2/4	0.71	10BL0201	NA	11000	0.00006	No
7440-62-2	Vanadium	4/4	3.6	10BL0101	NA	10000	0.0004	No
7440-66-6	Zinc	4/4	43.7	10BL0201	NA	630000	0.00007	No
Petroleum Hydrocarbons (mg/kg)								
TTNUS001	Total Petroleum Hydrocarbons	6/9	9500	PCYS10Z906	NA	2700	3.5	Yes

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

Footnotes:
1 - No background samples were available.
2 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned SCTL and, for metals, if the site concentrations exceed background levels.

Associated Samples
10BL0101
10BL0201
10BL0301
10BL0401
PCYS10Z1404
PCYS10Z1406
PCYS10Z306
PCYS10Z506
PCYS10Z904
PCYS10Z906

TABLE L-11
COMPARISON WITH SCTLS FOR LEACHABILITY TO GROUNDWATER AND CSAT LIMITS
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Florida Leachability to Groundwater[2]	Florida Leachability to Marine Surface Water[2]	Soil Saturation Limit, Csat[2]
Volatile Organic Compounds (mg/kg)								
127-18-4	Tetrachloroethene	2/6	0.007	PCYS10Z904	NA	0.03	0.1	230
1330-20-7	Total Xylenes	1/6	0.016 J	PCYS10Z1406	NA	0.2	3.9	140
75-69-4	Trichlorofluoromethane	2/6	0.03	PCYS10Z1404	NA	33	NA	1700
Semivolatile Organic Compounds (mg/kg)								
91-57-6	2-Methylnaphthalene	1/6	0.38 J	PCYS10Z1406	NA	8.5	9.1	NA
83-32-9	Acenaphthene	1/6	0.033 J	PCYS10Z506	NA	2.1	0.3	NA
98-86-2	Acetophenone	1/6	0.28 J	PCYS10Z1406	NA	3.9	44	2100
117-81-7	Bis(2-ethylhexyl)phthalate	6/6	0.96 J	PCYS10Z904	NA	3600	1300	31000
206-44-0	Fluoranthene	1/6	0.042 J	PCYS10Z906	NA	1200	1.3	NA
86-73-7	Fluorene	1/6	0.025 J	PCYS10Z506	NA	160	17	NA
85-01-8	Phenanthrene	2/6	0.1 J	PCYS10Z1406	NA	250	NA	NA
129-00-0	Pyrene	4/6	0.25 J	PCYS10Z906	NA	880	1.3	NA
	Carcinogenic PAHs	2/6	0.462	PCYS10Z506	NA	8	NA	NA
Metals (mg/kg)								
7429-90-5	Aluminum	4/4	1500	10BL0101	NA	NA	NA	NA
7440-36-0	Antimony	1/4	1.1 J	10BL0101	NA	5.4	3900	NA
7440-38-2	Arsenic	10/10	0.94	PCYS10Z1406	NA	NA	NA	NA
7440-39-3	Barium	4/4	2.7	10BL0101	NA	1600	NA	NA
7440-43-9	Cadmium	7/10	0.11	10BL0201	NA	7.5	14	NA
7440-70-2	Calcium	4/4	1510	10BL0401	NA	NA	NA	NA
7440-47-3	Chromium	10/10	6.4	PCYS10Z506	NA	38	19	NA
7440-48-4	Cobalt	3/4	0.14	10BL0201	NA	NA	NA	NA
7440-50-8	Copper	4/4	6.3	10BL0101	NA	NA	NA	NA
7439-89-6	Iron	4/4	1960 J	10BL0101	NA	NA	NA	NA
7439-92-1	Lead	10/10	15.9	10BL0101	NA	NA	NA	NA
7439-95-4	Magnesium	4/4	124	10BL0101, 10BL0201	NA	NA	NA	NA
7439-96-5	Manganese	4/4	8	10BL0201	NA	NA	NA	NA
7439-97-6	Mercury	3/4	0.14	10BL0101	NA	2.1	0.03	NA
7440-02-0	Nickel	4/4	1.1	10BL0101, 10BL0201	NA	130	11	NA
7440-09-7	Potassium	4/4	22.4	10BL0101	NA	NA	NA	NA
7782-49-2	Selenium	2/4	0.71	10BL0201	NA	5.2	7.4	NA
7440-62-2	Vanadium	4/4	3.6	10BL0101	NA	980	NA	NA
7440-66-6	Zinc	4/4	43.7	10BL0201	NA	NA	NA	NA
Petroleum Hydrocarbons (mg/kg)								
	Total Petroleum Hydrocarbons	6/9	9500	PCYS10Z906	NA	340	340	NA

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

TABLE L-11
COMPARISON WITH SCTLS FOR LEACHABILITY TO GROUNDWATER AND CSAT LIMITS
SWMU 10
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Florida Leachability to Groundwater[2]	Florida Leachability to Marine Surface Water[2]	Soil Saturation Limit, Csat[2]

Footnotes:
1 - No background samples were available.
2 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.

Associated Samples
10BL0101
10BL0201
10BL0301
10BL0401
PCYS10Z1404
PCYS10Z1406
PCYS10Z306
PCYS10Z506
PCYS10Z904
PCYS10Z906

TABLE L-12
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 2003
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
71-55-6	1,1,1-Trichloroethane	1/34	130	13GLM10S02-D	NA	200	0.7	No
75-34-3	1,1-Dichloroethane	16/34	110 J	13GLM10S02	NA	70	1.6	Yes
75-35-4	1,1-Dichloroethene	9/34	12	13GLM10S02-D	NA	7	1.7	Yes
78-93-3	2-Butanone	1/27	6	13GLM10S02-D	NA	4200	0.001	No
108-10-1	4-Methyl-2-Pentanone	1/34	3 J	13GLM10S02	NA	560	0.005	No
67-64-1	Acetone	1/27	17 J	13GLM10S02, 13GLM10S02-D	NA	6300	0.003	No
71-43-2	Benzene	6/34	2 J	13GLM14I02	NA	1	2.0	Yes
74-83-9	Bromomethane	9/34	7	13GLM14I02	NA	9.8	0.7	No
75-15-0	Carbon Disulfide	1/34	0.5 J	13GLM13I02	NA	700	0.0007	No
75-00-3	Chloroethane	2/34	10 J	13GLM12I02-D	NA	12	0.8	No
67-66-3	Chloroform	2/34	3 J	13GLM10I02	NA	70	0.04	No
156-59-2	cis-1,2-Dichloroethene	6/34	3 J	13GLM14I02	NA	70	0.04	No
110-82-7	Cyclohexane	1/22	2 J	13GLM10S02-D	NA	NA	NA	No
100-41-4	Ethylbenzene	3/34	52 J	13GLM10S02, 13GLM10S02-D	NA	30	1.7	Yes
108-87-2	Methyl Cyclohexane	2/22	3 J	13GLM10S02, 13GLM10S02-D, 13GLM15I02	NA	NA	NA	No
127-18-4	Tetrachloroethene	2/34	0.8 J	13GLM09S02	NA	3	0.3	No
108-88-3	Toluene	4/34	170 J	13GLM10S02	NA	40	4.3	Yes
540-59-0	Total 1,2-Dichloroethene	1/34	3 J	13GLM14I02	NA	63	0.05	No
1330-20-7	Total Xylenes	2/34	230	13GLM10S02-D	NA	20	12	Yes
79-01-6	Trichloroethene	1/34	6 J	13GLM10S02, 13GLM10S02-D	NA	3	2.0	Yes
75-69-4	Trichlorofluoromethane	1/34	3 J	13GLM10S02-D	NA	2100	0.001	No
75-01-4	Vinyl Chloride	1/34	0.2 J	13GLM10S02	NA	1	0.2	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	3/34	16	13GLM10S02-D	NA	28	0.6	No
91-57-6	2-Methylnaphthalene	3/34	40	13GLM10S02	NA	28	1.4	Yes
95-48-7	2-Methylphenol	1/34	3 J	13GLM09S02	NA	35	0.09	No
106-44-5	4-Methylphenol	2/34	45	13GLM10S02	NA	3.5	13	Yes
83-32-9	Acenaphthene	10/34	1.9	13GLM12I02, 13GLM12I02-D	NA	20	0.10	No
208-96-8	Acenaphthylene	1/34	0.2 J	13GLM10S02	NA	210	0.001	No
98-86-2	Acetophenone	1/34	1 J	13GLM09S02	NA	700	0.001	No
120-12-7	Anthracene	1/34	0.16 J	13GLM10S02-D	NA	2100	0.00008	No
117-81-7	Bis(2-ethylhexyl)phthalate	1/34	18 J	13GLM18S03	NA	6	3.0	Yes
132-64-9	Dibenzofuran	1/34	2 J	13GLM10S02-D	NA	28	0.07	No
86-73-7	Fluorene	9/34	1.5	13GLM12I02, 13GLM12I02-D	NA	280	0.005	No
91-20-3	Naphthalene	7/34	33	13GLM10S02	NA	14	2.4	Yes
85-01-8	Phenanthrene	2/34	0.8 J	13GLM10S02-D	NA	210	0.004	No
108-95-2	Phenol	1/34	2 J	13GLM10S02, 13GLM10S02-D	NA	10	0.2	No
Metals (ug/L)								
7429-90-5	Aluminum	1/1	757	13GLM18S03	NA	200	3.8	Yes
7440-38-2	Arsenic	10/34	17.7	13GLM13I02	NA	10	1.8	Yes
7440-39-3	Barium	1/1	4.3	13GLM18S03	NA	2000	0.002	No
7440-70-2	Calcium	34/34	35500	13GLM16D02	NA	NA	NA	No
7439-89-6	Iron	1/1	1320	13GLM18S03	NA	300	4.4	Yes
7439-95-4	Magnesium	34/34	3160	13GLM09I02	NA	NA	NA	No
7439-96-5	Manganese	33/34	25.7	13GLM13I02	NA	50	0.5	No
7440-09-7	Potassium	32/34	10600	13GLM13I02	NA	NA	NA	No
7440-23-5	Sodium	34/34	11200	13GLM13S02	NA	160000	0.07	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	30/34	19	13GLM13S02	NA	250000	0.00008	No
14797-55-8	Nitrate	23/34	1.9	13GLM02S02	NA	10000	0.0002	No
14797-65-0	Nitrite	2/34	0.1	13GLM06S02	NA	1000	0.0001	No
TTNUS029	Nitrite/Nitrate	5/6	0.6	13GLM18S03	NA	10000	0.00006	No
14808-79-8	Sulfate	26/34	20 J	13GLM08I02	NA	250000	0.00008	No
TTNUS003	Total Organic Carbon	25/34	41	13GLM09S02	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.
4 - Value is for 4-methylphenol.

TABLE L-12
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 2003
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Associated Samples								
13GLM02I02		13GLM11I02						
13GLM02D02		13GLM11S02						
13GLM02S02		13GLM12I02						
13GLM03D02		13GLM12I02-D						
13GLM04I02		13GLM13I02						
13GLM04S02		13GLM13S02						
13GLM05I02		13GLM14I02						
13GLM05S02		13GLM15I02						
13GLM06I02		13GLM15S02						
13GLM06I02-D		13GLM16D02						
13GLM06S02		13GLM16I02						
13GLM07I02		13GLM16S02						
13GLM08I02		13GLM17D02						
13GLM08S02		13GLM17I02						
13GLM09I02		13GLM17I02-D						
13GLM09S02		13GLM17S02						
13GLM10I02		13GLM18D02						
13GLM10S02		13GLM18I02						
13GLM10S02-D		13GLM18S03						

TABLE L-13
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 2003
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
71-55-6	1,1,1-Trichloroethane	1/34	130	13GLM10S02-D	NA	270	0.5	No
75-34-3	1,1-Dichloroethane	16/34	110 J	13GLM10S02	NA	NA	NA	No
75-35-4	1,1-Dichloroethene	9/34	12	13GLM10S02-D	NA	3.2	3.8	Yes
78-93-3	2-Butanone	1/27	6	13GLM10S02-D	NA	120000	0.00005	No
108-10-1	4-Methyl-2-Pentanone	1/34	3 J	13GLM10S02	NA	23000	0.0001	No
67-64-1	Acetone	1/27	17 J	13GLM10S02, 13GLM10S02-D	NA	1700	0.01	No
71-43-2	Benzene	6/34	2 J	13GLM14I02	NA	71.28	0.03	No
74-83-9	Bromomethane	9/34	7	13GLM14I02	NA	35	0.2	No
75-15-0	Carbon Disulfide	1/34	0.5 J	13GLM13I02	NA	110	0.005	No
75-00-3	Chloroethane	2/34	10 J	13GLM12I02-D	NA	NA	NA	No
67-66-3	Chloroform	2/34	3 J	13GLM10I02	NA	470.8	0.006	No
156-59-2	cis-1,2-Dichloroethene	6/34	3 J	13GLM14I02	NA	NA	NA	No
110-82-7	Cyclohexane	1/22	2 J	13GLM10S02-D	NA	NA	NA	No
100-41-4	Ethylbenzene	3/34	52 J	13GLM10S02, 13GLM10S02-D	NA	610	0.09	No
108-87-2	Methyl Cyclohexane	2/22	3 J	13GLM10S02, 13GLM10S02-D, 13GLM15I02	NA	NA	NA	No
127-18-4	Tetrachloroethene	2/34	0.8 J	13GLM09S02	NA	8.85	0.09	No
108-88-3	Toluene	4/34	170 J	13GLM10S02	NA	480	0.4	No
540-59-0	Total 1,2-Dichloroethene	1/34	3 J	13GLM14I02	NA	7000	0.0004	No
1330-20-7	Total Xylenes	2/34	230	13GLM10S02-D	NA	370	0.6	No
79-01-6	Trichloroethene	1/34	6 J	13GLM10S02, 13GLM10S02-D	NA	80.7	0.07	No
75-69-4	Trichlorofluoromethane	1/34	3 J	13GLM10S02-D	NA	NA	NA	No
75-01-4	Vinyl Chloride	1/34	0.2 J	13GLM10S02	NA	2.4	0.08	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	3/34	16	13GLM10S02-D	NA	95	0.2	No
91-57-6	2-Methylnaphthalene	3/34	40	13GLM10S02	NA	30	1.3	Yes
95-48-7	2-Methylphenol	1/34	3 J	13GLM09S02	NA	250	0.01	No
106-44-5	4-Methylphenol	2/34	45	13GLM10S02	NA	70	0.6	No
83-32-9	Acenaphthene	10/34	1.9	13GLM12I02, 13GLM12I02-D	NA	3	0.6	No
208-96-8	Acenaphthylene	1/34	0.2 J	13GLM10S02	NA	0.031	6.5	Yes
98-86-2	Acetophenone	1/34	1 J	13GLM09S02	NA	7800	0.0001	No
120-12-7	Anthracene	1/34	0.16 J	13GLM10S02-D	NA	0.3	0.5	No
117-81-7	Bis(2-ethylhexyl)phthalate	1/34	18 J	13GLM18S03	NA	2.2	8.2	Yes
132-64-9	Dibenzofuran	1/34	2 J	13GLM10S02-D	NA	67	0.03	No
86-73-7	Fluorene	9/34	1.5	13GLM12I02, 13GLM12I02-D	NA	30	0.05	No
91-20-3	Naphthalene	7/34	33	13GLM10S02	NA	26	1.3	Yes
85-01-8	Phenanthrene	2/34	0.8 J	13GLM10S02-D	NA	0.031	26	Yes
108-95-2	Phenol	1/34	2 J	13GLM10S02, 13GLM10S02-D	NA	6.5	0.3	No
Metals (ug/L)								
7429-90-5	Aluminum	1/1	757	13GLM18S03	NA	1500	0.5	No
7440-38-2	Arsenic	10/34	17.7	13GLM13I02	NA	50	0.4	No
7440-39-3	Barium	1/1	4.3	13GLM18S03	NA	NA	NA	No
7440-70-2	Calcium	34/34	35500	13GLM16D02	NA	NA	NA	No
7439-89-6	Iron	1/1	1320	13GLM18S03	NA	300	4.4	Yes
7439-95-4	Magnesium	34/34	3160	13GLM09I02	NA	NA	NA	No
7439-96-5	Manganese	33/34	25.7	13GLM13I02	NA	NA	NA	No
7440-09-7	Potassium	32/34	10600	13GLM13I02	NA	NA	NA	No
7440-23-5	Sodium	34/34	11200	13GLM13S02	NA	NA	NA	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	30/34	19	13GLM13S02	NA	NA	NA	No
14797-55-8	Nitrate	23/34	1.9	13GLM02S02	NA	NA	NA	No
14797-65-0	Nitrite	2/34	0.1	13GLM06S02	NA	NA	NA	No
TTNUS029	Nitrite/Nitrate	5/6	0.6	13GLM18S03	NA	NA	NA	No
14808-79-8	Sulfate	26/34	20 J	13GLM08I02	NA	NA	NA	No
TTNUS003	Total Organic Carbon	25/34	41	13GLM09S02	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.
4 - Value is for 4-methylphenol.

TABLE L-13
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 2003
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Associated Samples								
13GLM02I02		13GLM11I02						
13GLM02D02		13GLM11S02						
13GLM02S02		13GLM12I02						
13GLM03D02		13GLM12I02-D						
13GLM04I02		13GLM13I02						
13GLM04S02		13GLM13S02						
13GLM05I02		13GLM14I02						
13GLM05S02		13GLM15I02						
13GLM06I02		13GLM15S02						
13GLM06I02-D		13GLM16D02						
13GLM06S02		13GLM16I02						
13GLM07I02		13GLM16S02						
13GLM08I02		13GLM17D02						
13GLM08S02		13GLM17I02						
13GLM09I02		13GLM17I02-D						
13GLM09S02		13GLM17S02						
13GLM10I02		13GLM18D02						
13GLM10S02		13GLM18I02						
13GLM10S02-D		13GLM18S03						

TABLE L-14
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION - GROUNDWATER - 2004
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Groundwater CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
71-55-6	1,1,1-Trichloroethane	2/33	2.4	13GLM09S03	NA	200	0.01	No
75-34-3	1,1-Dichloroethane	16/33	43.8	13GLM09S03	NA	70	0.6	No
75-35-4	1,1-Dichloroethene	11/33	9.5	13GLM14I03	NA	7	1.4	Yes
71-43-2	Benzene	4/33	1.3	13GLM14I03	NA	1	1.3	Yes
108-90-7	Chlorobenzene	1/33	0.63 J	13GLM09S03	NA	100	0.006	No
75-00-3	Chloroethane	2/33	11.7	13GLM04I03	NA	12	1.0	No
156-59-2	cis-1,2-Dichloroethene	5/33	1.7	13GLM04I03	NA	70	0.02	No
100-41-4	Ethylbenzene	5/33	14.6	13GLM09S03	NA	30	0.5	No
98-82-8	Isopropylbenzene	1/33	0.51 J	13GLM09S03	NA	0.8	0.6	No
108-87-2	Methyl Cyclohexane	1/33	1.1	13GLM09S03	NA	NA	NA	No
108-88-3	Toluene	1/33	29.5	13GLM09S03	NA	40	0.7	No
540-59-0	Total 1,2-Dichloroethene	5/33	1.7 J	13GLM04I03	NA	63	0.03	No
1330-20-7	Total Xylenes	2/33	26.8	13GLM09S03	NA	20	1.3	Yes
79-01-6	Trichloroethene	1/33	1.1	13GLM09S03	NA	3	0.4	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	2/33	9.6	13GLM09S03	NA	28	0.3	No
91-57-6	2-Methylnaphthalene	1/33	13.4	13GLM09S03	NA	28	0.5	No
83-32-9	Acenaphthene	4/33	2.2	13GLM09S03, 13GLM12I03, 13GLM12I03-D	NA	20	0.1	No
86-73-7	Fluorene	7/33	2.9	13GLM09S03, 13GLM12I03, 13GLM12I03-D	NA	280	0.01	No
91-20-3	Naphthalene	4/33	8.1	13GLM09S03	NA	14	0.6	No
92-52-4	1,1-Biphenyl	1/33	1.9 J	13GLM09S03	NA	0.5	3.8	Yes
105-67-9	2,4-Dimethylphenol	1/33	3.1 J	13GLM09S03	NA	140	0.02	No
	3&4-Methylphenol	1/33	8.9	13GLM09S03	NA	3.5 [4]	3	Yes
132-64-9	Dibenzofuran	2/33	3.2 J	13GLM12I03, 13GLM12I03-D	NA	28	0.1	No
Metals (ug/L)								
7429-90-5	Aluminum	1/1	211 J	13GLM18S04	NA	200	1.1	Yes
7440-38-2	Arsenic	2/33	4.7	13GLM04I03	NA	10	0.5	No
7440-39-3	Barium	1/1	1.2	13GLM18S04	NA	2000	0.0006	No
7440-70-2	Calcium	33/33	79300	13GLM04S03	NA	NA	NA	No
7439-89-6	Iron	1/1	201 J	13GLM18S04	NA	300	0.7	No
7439-95-4	Magnesium	33/33	4640	13GLM04S03	NA	NA	NA	No
7439-96-5	Manganese	30/33	67.6	13GLM04S03	NA	50	1.4	Yes
7440-09-7	Potassium	33/33	3050 J	13GLM08I03	NA	NA	NA	No
7440-23-5	Sodium	33/33	14700	13GLM04S03	NA	160000	0.09	No
7440-66-6	Zinc	1/1	1.7	13GLM18S04	NA	5000	0.0003	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	33/33	168	13GLM04S03	NA	250000	0.0007	No
14797-55-8	Nitrate	15/33	14.2	13GLM02S03	NA	10000	0.001	No
14797-65-0	Nitrite	1/33	0.1	13GLM15S03	NA	1000	0.0001	No
14808-79-8	Sulfate	33/33	32.1	13GLM03D03	NA	250000	0.0001	No
	Total Organic Carbon	32/33	19.1	13GLM09S03	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.
4 - Value is for 4-methylphenol.

Associated Samples

13GLM0203	13GLM11I03	13GLM18D03
13GLM02D03	13GLM11S03	13GLM18I03
13GLM02S03	13GLM12I03	13GLM18S04
13GLM03D03	13GLM12I03-D	13GLM5I03
13GLM04I03	13GLM13I03	13GLM5S03
13GLM04S03	13GLM13S03	
13GLM06I03	13GLM14I03	
13GLM06I03-D	13GLM15I03	
13GLM06S03	13GLM15S03	
13GLM07I03	13GLM16D03	
13GLM08I03	13GLM16I03	
13GLM08S03	13GLM16S03	
13GLM09I03	13GLM17D03	
13GLM09S03	13GLM17I03	
13GLM10I03	13GLM17I03-D	
13GLM10I03-D	13GLM17S03	

TABLE L-15
FLORIDA LEVEL 1 EVALUATION - MIGRATION OF GROUNDWATER TO SURFACE WATER - 2004
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Marine Surface Water CTL[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (ug/L)								
71-55-6	1,1,1-Trichloroethane	2/33	2.4	13GLM09S03	NA	270	0.009	No
75-34-3	1,1-Dichloroethane	16/33	43.8	13GLM09S03	NA	NA	NA	No
75-35-4	1,1-Dichloroethene	11/33	9.5	13GLM14I03	NA	3.2	3.0	Yes
71-43-2	Benzene	4/33	1.3	13GLM14I03	NA	71.28	0.02	No
108-90-7	Chlorobenzene	1/33	0.63 J	13GLM09S03	NA	17	0.04	No
75-00-3	Chloroethane	2/33	11.7	13GLM04I03	NA	NA	NA	No
156-59-2	cis-1,2-Dichloroethene	5/33	1.7	13GLM04I03	NA	NA	NA	No
100-41-4	Ethylbenzene	5/33	14.6	13GLM09S03	NA	610	0.02	No
98-82-8	Isopropylbenzene	1/33	0.51 J	13GLM09S03	NA	260	0.002	No
108-87-2	Methyl Cyclohexane	1/33	1.1	13GLM09S03	NA	NA	NA	No
108-88-3	Toluene	1/33	29.5	13GLM09S03	NA	480	0.06	No
540-59-0	Total 1,2-Dichloroethene	5/33	1.7 J	13GLM04I03	NA	7000	0.0002	No
1330-20-7	Total Xylenes	2/33	26.8	13GLM09S03	NA	370	0.07	No
79-01-6	Trichloroethene	1/33	1.1	13GLM09S03	NA	80.7	0.01	No
Semivolatile Organic Compounds (ug/L)								
90-12-0	1-Methylnaphthalene	2/33	9.6	13GLM09S03	NA	95	0.1	No
91-57-6	2-Methylnaphthalene	1/33	13.4	13GLM09S03	NA	30	0.4	No
83-32-9	Acenaphthene	4/33	2.2	13GLM09S03, 13GLM12I03, 13GLM12I03-D	NA	3	0.7	No
86-73-7	Fluorene	7/33	2.9	13GLM09S03, 13GLM12I03, 13GLM12I03-D	NA	30	0.10	No
91-20-3	Naphthalene	4/33	8.1	13GLM09S03	NA	26	0.3	No
92-52-4	1,1-Biphenyl	1/33	1.9 J	13GLM09S03	NA	18	0.1	No
105-67-9	2,4-Dimethylphenol	1/33	3.1 J	13GLM09S03	NA	160	0.02	No
	3&4-Methylphenol	1/33	8.9	13GLM09S03	NA	70[4]	0.1	No
132-64-9	Dibenzofuran	2/33	3.2 J	13GLM12I03, 13GLM12I03-D	NA	67	0.05	No
Metals (ug/L)								
7429-90-5	Aluminum	1/1	211 J	13GLM18S04	NA	1500	0.1	No
7440-38-2	Arsenic	2/33	4.7	13GLM04I03	NA	50	0.09	No
7440-39-3	Barium	1/1	1.2	13GLM18S04	NA	NA	NA	No
7440-70-2	Calcium	33/33	79300	13GLM04S03	NA	NA	NA	No
7439-89-6	Iron	1/1	201 J	13GLM18S04	NA	300	0.7	No
7439-95-4	Magnesium	33/33	4640	13GLM04S03	NA	NA	NA	No
7439-96-5	Manganese	30/33	67.6	13GLM04S03	NA	NA	NA	No
7440-09-7	Potassium	33/33	3050 J	13GLM08I03	NA	NA	NA	No
7440-23-5	Sodium	33/33	14700	13GLM04S03	NA	NA	NA	No
7440-66-6	Zinc	1/1	1.7	13GLM18S04	NA	86	0.02	No
Miscellaneous Parameters (mg/L)								
16887-00-6	Chloride	33/33	168	13GLM04S03	NA	NA	NA	No
14797-55-8	Nitrate	15/33	14.2	13GLM02S03	NA	NA	NA	No
14797-65-0	Nitrite	1/33	0.1	13GLM15S03	NA	NA	NA	No
14808-79-8	Sulfate	33/33	32.1	13GLM03D03	NA	NA	NA	No
TTNUS003	Total Organic Carbon	32/33	19.1	13GLM09S03	NA	NA	NA	No

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

1 - No background samples were available.
2 - Groundwater Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned CTL.
4 - Value is for 4-methylphenol.

Associated Samples

13GLM0203	13GLM11I03	13GLM18D03
13GLM02D03	13GLM11S03	13GLM18I03
13GLM02S03	13GLM12I03	13GLM18S04
13GLM03D03	13GLM12I03-D	13GLM5I03
13GLM04I03	13GLM13I03	13GLM5S03
13GLM04S03	13GLM13S03	
13GLM06I03	13GLM14I03	
13GLM06I03-D	13GLM15I03	
13GLM06S03	13GLM15S03	
13GLM07I03	13GLM16D03	
13GLM08I03	13GLM16I03	
13GLM08S03	13GLM16S03	
13GLM09I03	13GLM17D03	
13GLM09S03	13GLM17I03	
13GLM10I03	13GLM17I03-D	
13GLM10I03-D	13GLM17S03	

TABLE L-16
FLORIDA LEVEL 1 (RESIDENTIAL) DIRECT CONTACT EVALUATION
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Residential SCTL-Direct Contact[2]	Ratio of Maximum Concentration/ Non-apportioned Residential SCTL	Is Chemical a Potential Level 1 COC?[3]
Volatile Organic Compounds (mg/kg)								
71-55-6	1,1,1-Trichloroethane	2/9	0.537	A1SL1301	NA	730	0.0007	No
75-34-3	1,1-Dichloroethane	2/9	0.94	A1SL1301	NA	390	0.002	No
100-41-4	Ethylbenzene	3/9	1.39	A1SL1201	NA	1500	0.0009	No
108-88-3	Toluene	3/9	1.64	A1SL1201	NA	7500	0.0002	No
1330-20-7	Total Xylenes	4/9	5.68	A1SL1201	NA	130	0.04	No
Semivolatile Organic Compounds (mg/kg)								
90-12-0	1-Methylnaphthalene	3/9	14.3	A1SL1201	NA	200	0.07	No
91-57-6	2-Methylnaphthalene	3/9	18	A1SL1201	NA	210	0.09	No
83-32-9	Acenaphthene	2/9	1.02 J	A1SL1201	NA	2400	0.0004	No
191-24-2	Benzo(g,h,i)perylene	3/9	0.194 J	A1SL1501	NA	2500	0.00008	No
206-44-0	Fluoranthene	2/9	0.482 J	A1SL1501	NA	3200	0.0002	No
86-73-7	Fluorene	3/9	1.82	A1SL1201	NA	2600	0.0007	No
91-20-3	Naphthalene	4/9	4.27	A1SL1201	NA	55	0.08	No
85-01-8	Phenanthrene	3/9	4.28	A1SL1201	NA	2200	0.002	No
129-00-0	Pyrene	3/9	0.655 J	A1SL1501	NA	2400	0.0003	No
92-52-4	1,1-Biphenyl	3/9	2.51	A1SL1201	NA	3000	0.0008	No
105-67-9	2,4-Dimethylphenol	1/9	0.426 J	A1SL1501	NA	1300	0.0003	No
	3&4-Methylphenol	4/9	1.62 J	A1SL1201	NA	300	0.0003	No
117-81-7	Bis(2-ethylhexyl)phthalate	1/9	0.18 J	A1SL0901	NA	72	0.003	No
132-64-9	Dibenzofuran	1/9	0.658 J	A1SL1201	NA	320	0.002	No
	Carcinogenic PAHs	2/9	0.246	A1SL1501	NA	0.1	2.5	Yes
Metals (mg/kg)								
7440-38-2	Arsenic	2/9	0.5 J	A1SL1501	NA	2.1	0.2	No
7440-43-9	Cadmium	3/9	2.3	A1SL1201	NA	82	0.03	No
7440-47-3	Chromium	9/9	28.2	A1SL1201	NA	210	0.1	No
7439-92-1	Lead	7/9	572 J	A1SL1201	NA	400	1.4	Yes
Petroleum Hydrocarbons (mg/kg)								
	Total Petroleum Hydrocarbons	9/9	14000	A1SL1201, A1SL1501	NA	460	30	Yes

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

Footnotes:
1 - No background samples were available.
2 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned SCTL.
4 - Value is for 4-methylphenol.

Associated Samples
A1SL0501
A1SL0502
A1SL0901
A1SL1001
A1SL1001-D
A1SL1201
A1SL1301
A1SL1401
A1SL1501
A1SL2801

TABLE L-17
FLORIDA LEVEL 2 (INDUSTRIAL) DIRECT CONTACT EVALUATION
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Non-Apportioned Florida Industrial SCTL-Direct Contact[2]	Ratio of Maximum Concentration/ Non-apportioned Industrial SCTL	Is Chemical a Potential Level 2 COC?[3]
Volatile Organic Compounds (mg/kg)								
71-55-6	1,1,1-Trichloroethane	2/9	0.537	A1SL1301	NA	3900	0.0001	No
75-34-3	1,1-Dichloroethane	2/9	0.94	A1SL1301	NA	2100	0.0004	No
100-41-4	Ethylbenzene	3/9	1.39	A1SL1201	NA	9200	0.0002	No
108-88-3	Toluene	3/9	1.64	A1SL1201	NA	60000	0.00003	No
1330-20-7	Total Xylenes	4/9	5.68	A1SL1201	NA	700	0.008	No
Semivolatile Organic Compounds (mg/kg)								
90-12-0	1-Methylnaphthalene	3/9	14.3	A1SL1201	NA	1800	0.008	No
91-57-6	2-Methylnaphthalene	3/9	18	A1SL1201	NA	2100	0.009	No
83-32-9	Acenaphthene	2/9	1.02 J	A1SL1201	NA	20000	0.00005	No
191-24-2	Benzo(g,h,i)perylene	3/9	0.194 J	A1SL1501	NA	52000	0.000004	No
206-44-0	Fluoranthene	2/9	0.482 J	A1SL1501	NA	59000	0.000008	No
86-73-7	Fluorene	3/9	1.82	A1SL1201	NA	33000	0.00006	No
91-20-3	Naphthalene	4/9	4.27	A1SL1201	NA	300	0.01	No
85-01-8	Phenanthrene	3/9	4.28	A1SL1201	NA	36000	0.0001	No
129-00-0	Pyrene	3/9	0.655 J	A1SL1501	NA	45000	0.00001	No
92-52-4	1,1-Biphenyl	3/9	2.51	A1SL1201	NA	34000	0.00007	No
105-67-9	2,4-Dimethylphenol	1/9	0.426 J	A1SL1501	NA	18000	0.00002	No
	3&4-Methylphenol	4/9	1.62 J	A1SL1201	NA	3400	0.00002	No
117-81-7	Bis(2-ethylhexyl)phthalate	1/9	0.18 J	A1SL0901	NA	390	0.0005	No
132-64-9	Dibenzofuran	1/9	0.658 J	A1SL1201	NA	63000	0.00001	No
	Carcinogenic PAHs	2/9	0.246	A1SL1501	NA	0.7	0.4	No
Metals (mg/kg)								
7440-38-2	Arsenic	2/9	0.5 J	A1SL1501	NA	12	0.04	No
7440-43-9	Cadmium	3/9	2.3	A1SL1201	NA	1700	0.001	No
7440-47-3	Chromium	9/9	28.2	A1SL1201	NA	470	0.06	No
7439-92-1	Lead	7/9	572 J	A1SL1201	NA	1400	0.4	No
Petroleum Hydrocarbons (mg/kg)								
	Total Petroleum Hydrocarbons	9/9	14000	A1SL1201, A1SL1501	NA	2700	5.2	Yes

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

Footnotes:
1 - No background samples were available.
2 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - A chemical is selected as a potential COC if the maximum concentration exceeds the non-apportioned SCTL.
4 - Value is for 4-methylphenol.

Associated Samples
A1SL0501
A1SL0502
A1SL0901
A1SL1001
A1SL1001-D
A1SL1201
A1SL1301
A1SL1401
A1SL1501
A1SL2801

TABLE L-18
COMPARISON WITH SCTLS FOR LEACHABILITY TO GROUNDWATER, SURFACE WATER, AND CSAT LIMITS
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Florida Leachability to Groundwater[2]	Florida Leachability to Marine Surface Water[2]	Soil Saturation Limit, Csat[2]
Volatile Organic Compounds (mg/kg)								
71-55-6	1,1,1-Trichloroethane	2/9	0.537	A1SL1301	NA	1.9	2.6	1200
75-34-3	1,1-Dichloroethane	2/9	0.94	A1SL1301	NA	0.4	NA	1700
100-41-4	Ethylbenzene	3/9	1.39	A1SL1201	NA	0.6	12	400
108-88-3	Toluene	3/9	1.64	A1SL1201	NA	0.5	5.6	650
1330-20-7	Total Xylenes	4/9	5.68	A1SL1201	NA	0.2	3.9	140
Semivolatile Organic Compounds (mg/kg)								
90-12-0	1-Methylnaphthalene	3/9	14.3	A1SL1201	NA	3.1	10	410
91-57-6	2-Methylnaphthalene	3/9	18	A1SL1201	NA	8.5	9.1	NA
83-32-9	Acenaphthene	2/9	1.02 J	A1SL1201	NA	2.1	0.3	NA
191-24-2	Benzo(g,h,i)perylene	3/9	0.194 J	A1SL1501	NA	32000	4.8	NA
206-44-0	Fluoranthene	2/9	0.482 J	A1SL1501	NA	1200	1.3	NA
86-73-7	Fluorene	3/9	1.82	A1SL1201	NA	160	17	NA
91-20-3	Naphthalene	4/9	4.27	A1SL1201	NA	1.2	2.2	NA
85-01-8	Phenanthrene	3/9	4.28	A1SL1201	NA	250	NA	NA
129-00-0	Pyrene	3/9	0.655 J	A1SL1501	NA	880	1.3	NA
92-52-4	1,1-Biphenyl	3/9	2.51	A1SL1201	NA	0.2	5.8	NA
105-67-9	2,4-Dimethylphenol	1/9	0.426 J	A1SL1501	NA	1.7	1.9	11000
	3&4-Methylphenol[3]	4/9	1.62 J	A1SL1201	NA	0.03	0.5	NA
117-81-7	Bis(2-ethylhexyl)phthalate	1/9	0.18 J	A1SL0901	NA	3600	1300	31000
132-64-9	Dibenzofuran	1/9	0.658 J	A1SL1201	NA	15	36	NA
	Carcinogenic PAHs	2/9	0.246	A1SL1501	NA	8	NA	NA
Metals (mg/kg)								
7440-38-2	Arsenic	2/9	0.5 J	A1SL1501	NA	NA	NA	NA
7440-43-9	Cadmium	3/9	2.3	A1SL1201	NA	7.5	14	NA
7440-47-3	Chromium	9/9	28.2	A1SL1201	NA	38	19	NA
7439-92-1	Lead	7/9	572 J	A1SL1201	NA	NA	NA	NA
Petroleum Hydrocarbons (mg/kg)								
	Total Petroleum Hydrocarbons	9/9	14000	A1SL1201, A1SL1501	NA	340	340	NA

Shaded cells indicate that the specified criterion or background level has been exceeded or that the chemical has been selected as a potential COC.

Footnotes:
1 - No background samples were available.
2 - Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., Florida Department of Environmental Protection (FDEP), April 2005.
3 - Value is 4-methylphenol.

TABLE L-18
COMPARISON WITH SCTLS FOR LEACHABILITY TO GROUNDWATER, SURFACE WATER, AND CSAT LIMITS
AOC 1
NAVAL SUPPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA

CAS Number	Chemical	Frequency of Detection	Maximum Concentration	Sample of Maximum Concentration	Background Value[1]	Florida Leachability to Groundwater[2]	Florida Leachability to Marine Surface Water[2]	Soil Saturation Limit, Csat[2]
Associated Samples								
A1SL0501								
A1SL0502								
A1SL0901								
A1SL1001								
A1SL1001-D								
A1SL1201								
A1SL1301								
A1SL1401								
A1SL1501								
A1SL2801								