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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 389 Date: 8/10/98

Well Name: MW-22 Sampling Zone No.: 3 Starting Time: 1038 Finishing Time: 1135

Technicians T. Brady, D. Dirkin

Water Level Inside MP Casing (Beginning of Session) 81.58 psia (End of Session) 81.60 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	81.58	✓	1046	1049	✓	81.59	1	1ST 12min: INITIAL PARAMETERS NTU's = 4.85 Ready to Sample
2	✓	✓	✓	✓	✓	✓	81.56	✓	1105	1108	✓	81.58	1	Sample MW-983-013 VOAS metals ANIONS 1/2 Cr+6
3	✓	✓	✓	✓	✓	✓	81.56	✓	1126	1129	✓	81.60	1	Sample MW-983-013 1/2 Cr+6 ClO_4 + Final Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: 106.49 psia outside CASING

Total Volume: 3.0L

F-2

FW FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 467 Date: 8/10/98

Well Name: MW-22 Sampling Zone No.: 4 Starting Time: 0932 Finishing Time: 1028

Technicians T. BLANEY, D. DIRILLIN

Water Level Inside MP Casing (Beginning of Session) 115.48 psia (End of Session) 115.48 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	115.48	✓	0940	0942	✓	115.48	1	1ST Run; Initial Parameters NTU'S = 6.20, Reducing TURBIDITY
2	✓	✓	✓	✓	✓	✓	115.45	✓	1001	1003	✓	115.50	1	2ND Run; NTU'S 23.95; Ready to Sample Sample MW-983-012 VOA, MS/MSD, metals
3	✓	✓	✓	✓	✓	✓	115.43	✓	1023	1025	✓	115.48	1	Sample MW-983-012 1/2 ANIONS Cr^{+6}, ClO_4 + Final Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: 132.19 psia OUTSIDE CASING

Total Volume: 3.0L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 588 Date: 6/10/98

Well Name: MW-22 Sampling Zone No.: 5 Starting Time: 0820 Finishing Time: 0928

Technicians T. BLANEY, D. DIRKIN

Water Level Inside MP Casing (Beginning of Session) 168.21 psia (End of Session) 168.23 psia

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	168.21	✓	0829	0831	✓	168.24	1	1ST Run; Initial Parameters NTU's = 2.33 · Ready to Sample
2	✓	✓	✓	✓	✓	✓	168.22	✓	0853	0855	✓	168.23	1	Sample MW-983-011 VOAs metals ANIONS 1/2 Cr+6
3	✓	✓	✓	✓	✓	✓	168.23	✓	0918	0920	✓	168.23	1	Sample MW-983-011 1/2 Cr+6 ClO4 + Field Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: 179.80 psia outside CASING

Total Volume: 3.0L

F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 174 Date: 8-13-98

Well Name: MW-23 Sampling Zone No.: SCREEN 1 Starting Time: 1430 Finishing Time: 1505

Technicians D. Dirkin & J. Blaney

Water Level Inside MP Casing (Beginning of Session) 17.93 PSIA (End of Session) 17.34 PSIA

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	17.93	✓	1433	1436	✓	17.89	1	1st run, initial parameters NTU = 4.01
2	✓	✓	✓	✓	✓	✓	17.87	✓	1446	1450	✓	17.84	1	2nd run, collect sample MW-983-010 VOCs, METALS Anions
3	✓	✓	✓	✓	✓	✓	17.28	✓	1500	1502	✓	17.34	3/4	3rd run, collect sample, etc, ClO4 and final parameters, NTU = 4.70
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: WL outside MP: 45.78 PSIA

Total Volume: 2.75 l

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL   Location: MW-23   Depth: 254'   Date: 8-13-98

Well Name: MW-23   Sampling Zone No.: SCREEN 2   Starting Time: 1340   Finishing Time: 1425

Technicians: D. Dirkin & J. Daney

Water Level Inside MP Casing (Beginning of Session) 52.81 PSIA   (End of Session) 52.80 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	52.81	✓	1343	1346	✓	52.81	1	1st run, initial parameter, NTUs = 3.35
2	✓	✓	✓	✓	✓	✓	52.81	✓	1359	1401	✓	52.81	1	2nd run, collect sample MW-983-[illegible], VOCs, metals, Anions + 1/2 Cr+6
3	✓	✓	✓	✓	✓	✓	52.78	✓	1417	1420	✓	52.80	1	3rd Run, collect sample, Cr+6, ClO4 & final paramet., NTUs = 4.68
4														
5														
6														
7														
8														
9														
10														
11														
12														

F-2

Comments: WL inside MP: 76.35 PSIA   Total Volume: 3 l

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 319' Date: 8-13-98

Well Name: MW-23 Sampling Zone No.: SCREEN 3 Starting Time: 1050 Finishing Time: 1335

Technicians D. DIRKIN & T. Blaney

Water Level Inside MP Casing (Beginning of Session) 67.47 PSIA (End of Session) 80.63 PSIA

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	67.47	✓	1055	1057	✓	67.52	1	1ST RUN, INITIAL PARAMETERS, NTUs = 89.
2	✓	✓	✓	✓	✓	✓	67.47	✓	1111	1113	✓	67.52	1	2nd RUN, ATTEMPTING TO REDUCE TURBIDITY NTUs = 60
3	NA	NA	NA	NA			65.41	✓	1127	-		79.32	NA	3rd RUN ATTEMPTING TO REDUCE TURBIDITY NO SAMPLE- BUBBLES PURGING SCREEN
4	✓	✓	✓	✓	✓	✓	81.28	✓	1211	1213	✓	81.28	1	4TH RUN, ATTEMPTING TO REDUCE TURBID. NTU = 26
5	✓	✓	✓	✓	✓	✓	81.18	✓	1231	1234	✓	81.31	1	5TH RUN. REDUCE TURBIDITY, NTUs = 24
6	✓	✓	✓	✓	✓	✓	81.21	✓	1249	1252	✓	81.29	1	6TH RUN, REDUCE TURBIDITY, NTUs = 14
7	✓	✓	✓	✓	✓	✓	81.08	✓	1309	1311	✓	81.19	1	7TH RUN, REDUCE TURBIDITY NTUs = 4.63 COLLECT SAMPLE MW-98-038 VOCs, METALS
8	✓	✓	✓	✓	✓	✓	80.59	✓	1329	1329	✓	80.63	3 1/4	8TH RUN, COLLECT SAMPLE AND FINAL PARAMETERS, NTUs = 12.2 (3 SAMPLES TOTAL)
9														
10														
11														
12														

Comments: WP OBSLOE MP= 103.95 PSIA
DIFFERENCE IN PRESSURE: 36.43 PSIA

Total Volume: 6.75 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JSL Location: MW-23 Depth: 445 Date: 8-12-98

Well Name: MW-23 Sampling Zone No.: SCREEN 4 Starting Time: 0950 Finishing Time: 1043

Technicians D. DIRKIN & J. Blaney

Water Level Inside MP Casing (Beginning of Session) 122.40 psia (End of Session) 122.36 psia

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	~~122.40~~ ~~123.16~~	✓	0955	0957	✓	122.40	1	1ST RUN, INITIAL PARAMETERS, NTUs = 4.56
2	✓	✓	✓	✓	✓	✓	~~122.40~~ ~~123.24~~	✓	1016	1018	✓	122.38	1	2nd Run, collect sample MW-983-007, VOCs, metals, Anions, 6+Cr
3	✓	✓	✓	✓	✓	✓	122.36	✓	1036	1038	✓	122.36	1	3rd RUN, collect sample, FINAL parameters, NTU =
4														
5														
6														
7														
8														
9														
10														
11														
12														

F-2

Comments: WP offsite MP = 148.34 psia

Total Volume: 3 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL　Location: MW-23　Depth: 542　Date: 8-13-98

Well Name: MW-23　Sampling Zone No.: SCREEN 5　Starting Time: 0838　Finishing Time: 0944

Technicians: D. Dirkin & T. Blaney

Water Level Inside MP Casing (Beginning of Session) 164.69 PSIA　(End of Session) 164.56 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	✓	✓	0842	0844	✓	164.65	1	1st RUN INITIAL PARAMETERS NTUS = 1.71
2	✓	✓	✓	✓	✓	✓	✓	✓	0905	0908	✓	164.57	1	2nd Run, collect sample MW-983-QVE (MS/MSD), VOC, metals, ~~anions~~, ~~[illegible]~~
3	✓	✓	✓	✓	✓	✓	✓	✓	0931	0934	✓	164.56	1	3rd Run, collect sample, Anions, Cat, clay and Final parameters, NTU = 2.21
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: WP OUTSIDE MP - 190.12 PSIA

Total Volume: 3l

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 279 Date: 7/29/98

Well Name: MW-24 Sampling Zone No.: 1 Starting Time: 1120 Finishing Time: 1250

Technicians M. Losi, T. Blaney

Water Level Inside MP Casing (Beginning of Session) 17.45 psia (End of Session) 17.44 psia

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	17.45	✓	1129	1132	✓	17.50	1	1st Run; INITIAL Parameters NTU's = 4.91; Ready to Sample
2	✓	✓	✓	✓	✓	✓	17.49	✓	1147	1152	✓	17.49	1	Sample MW-983-005 VOCs 1/2 1,4-Dioxane
3	✓	✓	✓	✓	✓	✓	17.45	✓	1207	1211	✓	17.47	1	Sample MW-983-005 1/2 1,4 Dioxane 1/2 NDMA
4	✓	✓	✓	✓	✓	✓	17.44	✓	1223	1227	✓	17.47	1	Sample MW-983-005 1/2 NDMA metals 1/2 ANIONS
5	✓	✓	✓	✓	✓	✓	17.41	✓	1240	1244	✓	17.44	1	Sample MW-983-005 1/2 ANIONS Cr+6 ClO_4 + Final Parameters
6														
7														
8														
9														
10														
11														
12														

Comments: 54.12 psia outside CASING

Total Volume: 3.0L

F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 373 Date: 8/7/98

Well Name: MW-24 Sampling Zone No.: 2 Starting Time: 1207 Finishing Time: 1302

Technicians T. Blaney, M. Losi

Water Level Inside MP Casing (Beginning of Session) 57.44 psia (End of Session) 57.42 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	57.44	✓	1213	1216	✓	57.47	1	1st Run; Initial Parameters NTUs = 14.2; Reducing Turbidity
2	✓	✓	✓	✓	✓	✓	57.44	✓	1232	1236	✓	57.47	1	2nd Run; NTUs = 4.82; Sample MW-983-004 VOAs, metals, 1/2 Anions
3	✓	✓	✓	✓	✓	✓	57.41	✓	1252	1255	✓	57.42	1	Sample MW-983-004 1/2 Anions Cr^{+6}, ClO_4 + Final Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: 88.71 psia outside casing

Total Volume: 3.0 L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 435 Date: 8/7/98

Well Name: MW-24 Sampling Zone No.: 3 Starting Time: 1004 Finishing Time: 1203

Technicians T. Blaney, M. Losi

Water Level Inside MP Casing (Beginning of Session) 84.54 psia (End of Session) 83.86 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	84.54	✓	1008	1010	✓	84.56	1	1ST Run; INITIAL PARAMETERS NTU's = 25.1, Reducing TURBIDITY
2	✓	✓	✓	✓	✓	✓	84.37	✓	1045	1048	✓	84.38	1	2ND Run; NTU's = 20.1 Reducing TURBIDITY
3	✓	✓	✓	✓	✓	✓	84.40	✓	1106	1108	✓	84.42	1	3RD Run; NTU's = 15.2 Reducing TURBIDITY
4	✓	✓	✓	✓	✓	✓	84.36	✓	1127	1130	✓	84.42	1	4TH Run; NTU's = 4.76 Ready to Sample Sample MW98S-003
5	✓	✓	✓	✓	✓	✓	83.75	✓	1149	1151	✓	83.86	0.75	Sample MW-98S-003 CATC, CIOI + FINAL Parameters
6														
7														
8														
9														
10														
11														
12														

Comments: 113.48 psia outside Casing

Total Volume: 4.75L[F2]

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 554 Date: 8/7/98

Well Name: MW-24 Sampling Zone No.: 4 Starting Time: 0845 Finishing Time: 1000

Technicians T. Blaney, M. Losi

Water Level Inside MP Casing (Beginning of Session) 136.24 psia (End of Session) 135.23 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	136.24	✓	0857	0900	✓	136.28	1	12 L 12min. Initial Parameters. NTU's = 4.82. Ready to Sample
2	✓	✓	✓	✓	✓	✓	136.23	✓	0923	0925	✓	136.25	1	Sample MW-983-002 VOAs metals, Cr+6 ANIONS
3	✓	✓	✓	✓	✓	✓	135.20	✓	0947	0949	✓	135.23	0.5	Sample MW-983-002 Cl04 + Final Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: 15322 psia outside CASING

Total Volume: 2.5L

F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 678 Date: 8/4/98

Well Name: MW-24 Sampling Zone No.: 5 Starting Time: 1252 Finishing Time: 1435

Technicians T. BLANEY, M. Losi

Water Level Inside MP Casing (Beginning of Session) 190.29 psia (End of Session) 189.20 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	190.29	✓	1301	1305	✓	190.32	1	1ST Run; INITIAL Parameters NTUs = 577; Reducing Turbidity
2	✓	✓	✓	✓	✓	✓	190.30	✓	1331	1333	✓	190.33	1	2ND Run; NTUs = 18.6; Reducing Turbidity
3	✓	✓	✓	✓	✓	✓	190.30	✓	1357	1359	✓	190.33	1	3RD Run; NTUs = 3.78; Sample MW-983-021 VOAs metals Anions
4	✓	✓	✓	✓	✓	✓	189.17	✓	1423	1424	✓	189.20	0.5	Sample MW-983-021 QC + Clay + Final Parameters
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Total Volume: 3.5L [F2]

APPENDIX C

FIELD INSTRUMENT CALIBRATION FORMS

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. Blaney Date: 7/17/98
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 6883 Calibration Date: 7/17/98

STANDARDIZATION

Time: 0810 Scale: 10 Zero: 0 Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1455 Scale: 10 Zero: 0 Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Bunney Date: 7/20/98

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 6883 Calibration Date: 7/20/98

STANDARDIZATION

Time: 0815 Scale: 10 Zero: ~~0~~ Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: 1410 Scale: 10 Zero: ~~0~~ Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. Blaney Date: 7/2/98
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 6883 Calibration Date: 7/2/98

STANDARDIZATION

Time: 0750 Scale: 10 Zero: ~~0~~ Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1320 Scale: 10 Zero: ~~0~~ Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: J Brennel Date: 7/22/98
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 6883 Calibration Date: 7/22/98

STANDARDIZATION

Time: 0800 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1410 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Blaney   Date: 7/23/98

Instrument Manufacturer: HF Scientific   Model: DRT-15CE

Serial Number: 6883   Calibration Date: 7/23/98

STANDARDIZATION

Time: 0800   Scale: 10   Zero: 0   Stray Light: N/A

Standard NTU: 0.02   Reading: 0.02

Standard NTU: ______   Reading: ______

Time: 1330   Scale: 10   Zero: 0   Stray Light: N/A

Standard NTU: 0.02   Reading: 0.02

Standard NTU: ______   Reading: ______

Time: ______   Scale: ______   Zero: ______   Stray Light: ______

Standard NTU: ______   Reading: ______

Standard NTU: ______   Reading: ______

Time: ______   Scale: ______   Zero: ______   Stray Light: ______

Standard NTU: ______   Reading: ______

Standard NTU: ______   Reading: ______

Time: ______   Scale: ______   Zero: ______   Stray Light: ______

Standard NTU: ______   Reading: ______

Standard NTU: ______   Reading: ______

Time: ______   Scale: ______   Zero: ______   Stray Light: ______

Standard NTU: ______   Reading: ______

Standard NTU: ______   Reading: ______

Time: ______   Scale: ______   Zero: ______   Stray Light: ______

Standard NTU: ______   Reading: ______

Standard NTU: ______   Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. Brenner Date: 7/24/98

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: Calibration Date: 7/24/98

STANDARDIZATION

Time: 0750 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1445 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: [illegible] Date: 27 July 98

Instrument Manufacturer: HACH Model: DRT-15CE

Serial Number: 6863 Calibration Date: 27 July 98

STANDARDIZATION

Time: 920 Selected Scale: 10 Instrument at Zero: ~~Yes~~ / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1610 Selected Scale: 10 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: NICOSI Date: 28 July 98

Instrument Manufacturer: HFS Model: DRT 15CE

Serial Number: 6883 Calibration Date: 28 July 98

STANDARDIZATION

Time: 0830 Scale: 10 Zero: ~~N/A~~ yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1500 Scale: 10 Zero: Yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/29/98

Instrument Manufacturer: HF-S Model: DRT 15CE

Serial Number: 6883 Calibration Date: 7/29/98

STANDARDIZATION

Time: 0840 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: ~~0.02~~ ML Instrument Reading: ~~0.02~~ ML

Time: 1500 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/30/98

Instrument Manufacturer: HF S Model: DRT 15CE

Serial Number: 6883 Calibration Date: 7/30/98

STANDARDIZATION

Time: 0800 Scale: 10 Zero: Yes Stray Light: NA

Standard NTU: 0.02 Reading: 0.03

Standard NTU: Reading:

Time: 1300 Scale: 10 Zero: YES Stray Light: NA

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/31

Instrument Manufacturer: HFS Model: DRT 15CE

Serial Number: 6883 Calibration Date: 7/31

STANDARDIZATION

Time: 0735 Selected Scale: 10 Instrument at Zero: ~~Yes~~ / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1500 Selected Scale: 10 Instrument at Zero: ~~Yes~~ / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOS1 Date: 8/3/98

Instrument Manufacturer: HFS Model: DRT 15CE

Serial Number: 9883 Calibration Date: 8/3/98

STANDARDIZATION

Time: 0845 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1440 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MCOSI Date: 8/4/98
Instrument Manufacturer: HFS Model: DRT 15CC
Serial Number: 6883 Calibration Date: 8/4/98

STANDARDIZATION

Time: 0745 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1500 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Blaney Date: 8/5/98

Instrument Manufacturer: HF Scientific Model: DCT-15CE

Serial Number: 6883 Calibration Date: 8/5/98

STANDARDIZATION

Time: 0730 Scale: 10 Zero: 0 Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: 1430 Scale: 10 Zero: 0 Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. BLANEY Date: 8/6/98

Instrument Manufacturer: HF Scientific Model: ~~DRT-100~~ DRT-15CE

Serial Number: 6883 Calibration Date: 8/6/98

STANDARDIZATION

Time: 0730 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1430 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MUS I Date: 8/7/98

Instrument Manufacturer: HFS Model: DRT-15CE

Serial Number: 6883 Calibration Date: 8/7/98

STANDARDIZATION

Time: 0830 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: ______ Reading: ______

Time: 1302 Scale: 10 Zero: ~~0~~ Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Blaney Date: 8/10/98

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 6883 Calibration Date: 8/10/98

STANDARDIZATION

Time: 0755 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1500 Selected Scale: 10 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Branney Date: 8/11/98

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 6883 Calibration Date: 8/11/98

STANDARDIZATION

Time: 0940 Scale: 10 Zero: 0 Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1400 Scale: 10 Zero: 0 Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. Blanly Date: 8/12/98
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 6883 (HAZCO) Calibration Date: 8-12-98

STANDARDIZATION

Time: 0800 Scale: 10x Zero: N 0 Stray Light: NA
Standard NTU: 0.02 Reading: 0.02
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Time: ______ Scale: ______ Zero: ______ Stray Light: ______
Standard NTU: ______ Reading: ______
Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Blaney Date: 8-13-98

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 6883 (HAZCO) Calibration Date: 8-13-98

STANDARDIZATION

Time: 0815 Scale: 10 x Zero: 0 Stray Light: NA

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ____ Reading: ____

Time: 1515 Scale: 10x Zero: 0 Stray Light: NA

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ____ Reading: ____

Time: ____ Scale: ____ Zero: ____ Stray Light: ____

Standard NTU: ____ Reading: ____

Standard NTU: ____ Reading: ____

Time: ____ Scale: ____ Zero: ____ Stray Light: ____

Standard NTU: ____ Reading: ____

Standard NTU: ____ Reading: ____

Time: ____ Scale: ____ Zero: ____ Stray Light: ____

Standard NTU: ____ Reading: ____

Standard NTU: ____ Reading: ____

Time: ____ Scale: ____ Zero: ____ Stray Light: ____

Standard NTU: ____ Reading: ____

Standard NTU: ____ Reading: ____

Time: ____ Scale: ____ Zero: ____ Stray Light: ____

Standard NTU: ____ Reading: ____

Standard NTU: ____ Reading: ____

Comments: ____

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Bunn Date: 7/17/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 25.3 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0810 Slope: N/A Temperature: 25.3

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1455 Slope: N/A Temperature: 29.0

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T BLANEY Date: 7/20/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93HC8703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M050B

ATC Probe Manufacturer: Model: 3570

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: pH 7.00: 12/29/99 pH 10.01: 11/6/00

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 22.9 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 22.9

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: 1410 Slope: N/A Temperature: 23.5

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPC

Calibration by: T. BLANEY Date: 7/21/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: 6000

Instrument Readings with Shorting Plug in, mV: — Temperature: 26.6 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0750 Slope: N/A Temperature: 26.6

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1320 Slope: N/A Temperature: 27.8

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BIZENNER Date: 7/22/98

Instrument Manufacturer: ~~[illegible]~~ YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 350

Serial Number: 98B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 93470893

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 25.1 pH: 5.08 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0900 Slope: N/A Temperature: 22.4

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1410 Slope: N/A Temperature: 25.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Bunney Date: 7/23/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93 H0E703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 21.1 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 21.1

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1330 Slope: N/A Temperature: 26.9

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRAINER Date: 7/24/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93408703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B 812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number:

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 20.5 pH: 5.23 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0750 Slope: N/A Temperature: 21.8

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1445 Slope: N/A Temperature: 23.2

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MMOSI Date: 27 July 98

Instrument Manufacturer: YSI Model: 9500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3537

Serial Number: 96B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0920 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 31.5 pH: 7.47 ISO: —

Reference Chamber Solution Changed ?: N/A

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0920 Slope: — Temperature: 26.7 ~~26.~~ 26.7

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: 1620 Slope: — Temperature: 28.1

Response to Low Buffer: 7.— Response to High Buffer: 10.00

Time: — Slope: — Temperature: —

Response to Low Buffer: — Response to High Buffer: —

Comments: —

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MACTEC Date: 28 JULY 98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93140870 3

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 25.0 pH: 7.59 ISO: —

Reference Chamber Solution Changed ?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 24.3

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: 1500 Slope: N/A Temperature: 36.1

Response to Low Buffer: 7.00 Response to High Buffer: 10.03

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/29/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 94B812637

ATC Probe Manufacturer: YSI Model: 3516

Serial Number: N/A

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30

INSTRUMENTATION CHECK-OUT

Time: 0840 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 23.3 pH: 8.00 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0840 Slope: — Temperature: 21.8

Response to Low Buffer: 7.00 Response to High Buffer: 10.01

Time: 1500 Slope: — Temperature: 30.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MROSI Date: 7/30/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93101703

pH Probe Manufacturer: YSI Model: 3570

Serial Number: 98158126 37

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 24.8 pH: 8.01 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: — Temperature: 25.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: 1300 Slope: — Temperature: 30.1

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MACTEC Date: 7/31/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93408703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: - Temperature: 26.6 pH: 8.2 ISO: -

Reference Chamber Solution Changed ?: -

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0735 Slope: N/A Temperature: 26.6

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1500 Slope: N/A Temperature: 32.4

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: ~~1~~ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 8/3/94

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93170870 3

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B12637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 93470893

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6/94 pH 10.01: 10/94

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 23.0 pH: 6.78 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0845 Slope: NA Temperature: 24.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: Slope: NA Temperature: 32.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1140 Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JFL

Calibration by: MLOSI Date: 8/4/98

Instrument Manufacturer: YSI Model: 3502

Serial Number: 93408703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 93B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 93470813

Buffer Solution Manufacturer: APi LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 22.2 pH: _____ ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 22.1

Response to Low Buffer: 7.02 Response to High Buffer: 10.02

Time: 1500 Slope: N/A Temperature: 34.6

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Blaney Date: 8/5/96

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 93B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: ~~93~~ N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0725 Battery Condition: 6000

Instrument Readings with Shorting Plug in, mV: — Temperature: 22.7 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0730 Slope: N/A Temperature: 22.4

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1435 Slope: N/A Temperature: 34.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. BLANEY Date: 8/6/98
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H0B703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97M 0508
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0725 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 20.4 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0730 Slope: N/A Temperature: 20.4
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1430 Slope: N/A Temperature: 31.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MCSI Date: 8/7/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/3/99 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: - Temperature: 20.5 pH: 7.03 ISO: -

Reference Chamber Solution Changed ?: -

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 20.6

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1302 Slope: N/A Temperature: 31.2

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. BLANEY Date: 8/10/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: 6000

Instrument Readings with Shorting Plug in, mV: — Temperature: 25.6 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: 6000

FIELD CALIBRATION

Time: 0755 Slope: N/A Temperature: 25.5

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1500 Slope: N/A Temperature: 33.1

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. BLANEY Date: 8/11/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H0B703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0940 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 28.0 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0940 Slope: N/A Temperature: 28.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1400 Slope: N/A Temperature: 35.5

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: ~~Zero~~ TPB Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: D DIRKIN Date: 8-12-98

Instrument Manufacturer: YSI - 3500 Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M0508

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 26.3 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 26.3

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: * 0900 Slope: — Temperature: —

Response to Low Buffer: — Response to High Buffer: —

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: * EQUIP. MALFUNCTION — SAMPLING EQUIP IS NOT OPERATING PROPERLY — CEASE SAMPLING ACTIVITIES FOR DAY

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: D. Dirkin Date: 8/13/98
Instrument Manufacturer: YSI Model: 3500
Serial Number: 73H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97M0508
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: API LIRCO
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/99 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: — Temperature: 26.1 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: J
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 26.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1515 Slope: N/A Temperature: 26.5
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Burney Date 7/17/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 24.1

Temperature Compensated Solution Conductivity (µ S/cm)* 983

Instrument Response to Calibration Solution: 981

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1455 Temperature of Solution: 29.0

Temperature Compensated Solution Conductivity (µ S/cm)* 1079

Instrument Response to Calibration Solution: 1082

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: ____ Temperature of Solution: ____

Temperature Compensated Solution Conductivity (µ S/cm)* ____

Instrument Response to Calibration Solution: ____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ____ No: ____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T Blaney Date 7/20/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer:

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 08/99

FIELD CALIBRATION

Time: 0815 Temperature of Solution: 21.1

Temperature Compensated Solution Conductivity (µ S/cm)* 925

Instrument Response to Calibration Solution: 934

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No:

Time: 1410 Temperature of Solution: 27.4

Temperature Compensated Solution Conductivity (µ S/cm)* 1047

Instrument Response to Calibration Solution: 1062

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No:

Time: Temperature of Solution:

Temperature Compensated Solution Conductivity (µ S/cm)*

Instrument Response to Calibration Solution:

Instrument Response within Instrument and Probe Limits of Error: ** Yes: No:

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPC

Calibration by: T. Blaney Date 7/21/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 uS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 23.7

Temperature Compensated Solution Conductivity (µ S/cm)* 974

Instrument Response to Calibration Solution: 998

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1320 Temperature of Solution: 27.8

Temperature Compensated Solution Conductivity (µ S/cm)* 1055

Instrument Response to Calibration Solution: 1063

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: ____ Temperature of Solution: ____

Temperature Compensated Solution Conductivity (µ S/cm)* ____

Instrument Response to Calibration Solution: ____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ____ No: ____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 7/22/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/99

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 22.9

Temperature Compensated Solution Conductivity (µ S/cm)* 959

Instrument Response to Calibration Solution: 978

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1410 Temperature of Solution: 25.0

Temperature Compensated Solution Conductivity (µ S/cm)* 1,000

Instrument Response to Calibration Solution: 1020

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: ____ Temperature of Solution: ____

Temperature Compensated Solution Conductivity (µ S/cm)* ____

Instrument Response to Calibration Solution: ____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ____ No: ____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Burney Date 7/23/98

Instrument Manufacturer: YSI Model: 3520

Serial Number: 93H0870C3

Probe Manufacturer: YSI Model: 3520

Serial Number: 94BZ9013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 uS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 21.4

Temperature Compensated Solution Conductivity (µ S/cm)* 931

Instrument Response to Calibration Solution: 947

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1330 Temperature of Solution: 26.9

Temperature Compensated Solution Conductivity (µ S/cm)* 1037

Instrument Response to Calibration Solution: 1052

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: _____ Temperature of Solution: _____

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: _____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 7/24/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93408703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 mS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 21.5

Temperature Compensated Solution Conductivity (µ S/cm)* 932

Instrument Response to Calibration Solution: 950

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1445 Temperature of Solution: 23.0

Temperature Compensated Solution Conductivity (µ S/cm)* 961

Instrument Response to Calibration Solution: 982

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: ____ Temperature of Solution: ____

Temperature Compensated Solution Conductivity (µ S/cm)* ____

Instrument Response to Calibration Solution: ____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ____ No: ____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 27 July 94

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93/08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0920 Temperature of Solution: 26.3

Temperature Compensated Solution Conductivity (µ S/cm) *: 1079

Instrument Response to Calibration Solution: 1010

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: ~~0920~~ mc 1610 Temperature of Solution: 23.1

Temperature Compensated Solution Conductivity (µ S/cm) *: 1060

Instrument Response to Calibration Solution: 1050

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300
mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale;
and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date 28 July 98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93140870 3

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 24.7

Temperature Compensated Solution Conductivity (µ S/cm)* 994

Instrument Response to Calibration Solution: 999

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1500 Temperature of Solution: 35.5

Temperature Compensated Solution Conductivity (µ S/cm)* 1156

Instrument Response to Calibration Solution: 1179

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: _____ Temperature of Solution: _____

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: _____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/29/94

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/95

FIELD CALIBRATION

Time: 0840 Temperature of Solution: 24.5

Temperature Compensated Solution Conductivity (µ S/cm) * 990

Instrument Response to Calibration Solution: 1000

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1500 Temperature of Solution: 29.8

Temperature Compensated Solution Conductivity (µ S/cm) * 1094

Instrument Response to Calibration Solution: 1160

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300
mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale;
and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date 7/30/99

Instrument Manufacturer: YSI Model: 33500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 25.0

Temperature Compensated Solution Conductivity (µ S/cm)* 1000

Instrument Response to Calibration Solution: 1057

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1300 Temperature of Solution: 30.0

Temperature Compensated Solution Conductivity (µ S/cm)* 1098.4

Instrument Response to Calibration Solution: 1102

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: _____ Temperature of Solution: _____

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: _____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/31/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0735 Temperature of Solution: 21.4

Temperature Compensated Solution Conductivity (µ S/cm) * 931

Instrument Response to Calibration Solution: 945

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1500 Temperature of Solution: 32.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1138

Instrument Response to Calibration Solution: 1120

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300 mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale; and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 8/3/98

Instrument Manufacturer: YSI Model: 3560

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B77013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0845 Temperature of Solution: 25.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1000

Instrument Response to Calibration Solution: 996

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1440 Temperature of Solution: 32.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1138

Instrument Response to Calibration Solution: 1197

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300
mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale;
and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MACSI Date: 3/4/98

Instrument Manufacturer: YSI Model: 3577

Serial Number: 93180703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1072 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 1255 Temperature of Solution: 23.0

Temperature Compensated Solution Conductivity (µ S/cm) * 961

Instrument Response to Calibration Solution: 980

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1500 Temperature of Solution: 35

Temperature Compensated Solution Conductivity (µ S/cm) * ~~1443~~ 1099

Instrument Response to Calibration Solution: 1122

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300
mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale;
and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. GLANEY Date 8/5/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H0B705

Probe Manufacturer: YSI Model: 3572

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0730 Temperature of Solution: 22.0

Temperature Compensated Solution Conductivity (µ S/cm)* 942

Instrument Response to Calibration Solution: 958

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1430 Temperature of Solution: 34.1

Temperature Compensated Solution Conductivity (µ S/cm)* 1181

Instrument Response to Calibration Solution: 1199

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: _____ Temperature of Solution: _____

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: _____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPC

Calibration by: T. BLANEY Date: 8/6/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93HCE703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B790.3

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0730 Temperature of Solution: 20.4

Temperature Compensated Solution Conductivity (µ S/cm) * 912

Instrument Response to Calibration Solution: 925

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1430 Temperature of Solution: 31.7

Temperature Compensated Solution Conductivity (µ S/cm) * 1132

Instrument Response to Calibration Solution: 1147

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300
mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale;
and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 8/7/98

Instrument Manufacturer: YSI Model: 3582

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3562

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 20.0

Temperature Compensated Solution Conductivity (µ S/cm) * 9041

Instrument Response to Calibration Solution: 919

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1302 Temperature of Solution: 32.1

Temperature Compensated Solution Conductivity (µ S/cm) * 1140

Instrument Response to Calibration Solution: 1156

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300 mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale; and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Blaney Date: 8/10/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93108703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 mS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0755 Temperature of Solution: 27.4

Temperature Compensated Solution Conductivity (µ S/cm) * 1047

Instrument Response to Calibration Solution: 1065

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1500 Temperature of Solution: 33.2

Temperature Compensated Solution Conductivity (µ S/cm) * 1162

Instrument Response to Calibration Solution: 1181

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$
Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:
± 6% of calibration solution if reading is ≤ 150 mmhos/cm on 500 scale;
≤ 1500 mmhos/cm on 5000 Scale; or ≤ 15,000 mmhos/cm on 50,000 scale.
± 4.5% to 6% of calibration solution if reading is > 150 and < 300
mmhos/cm on 500 scale; > 1500 and < 3000 mmhos/cm an 5000 scale;
and > 15,000 and < 30,000 mmhos/cm on 50,000 Scale.
± 4.5% of calibration solution if reading is ≥ 300 mmhos/cm on 500 scale;
≥ 3000 mmhos/cm on 5000 scale; and ≥ 30,000 mmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Blaney Date 8/11/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93 H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0940 Temperature of Solution: 28.2

Temperature Compensated Solution Conductivity (µ S/cm)* 1063

Instrument Response to Calibration Solution: 1084

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1400 Temperature of Solution: 35.3

Temperature Compensated Solution Conductivity (µ S/cm)* 1205

Instrument Response to Calibration Solution: 1211

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: ____ Temperature of Solution: ____

Temperature Compensated Solution Conductivity (µ S/cm)* ____

Instrument Response to Calibration Solution: ____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ____ No: ____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: NPL

Calibration by: T. BLANCY Date 8/12/98

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 uS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 26.2

Temperature Compensated Solution Conductivity (µ S/cm)* 1023

Instrument Response to Calibration Solution: ~~1004~~ 1049

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: * 0900 Temperature of Solution: —

Temperature Compensated Solution Conductivity (µ S/cm)* —

Instrument Response to Calibration Solution: —

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Time: _____ Temperature of Solution: _____

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: _____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

** **Instrument is Calibrated if Response is:**

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

* CEASE SAMPLING FOR DAY — EQUIP. ~~ERROR~~ MALFUNCTION

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JSL

Calibration by: D. Drkin Date 8/13

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

Probe Manufacturer: YSI Model: 3510

Serial Number: 94B 79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0815 Temperature of Solution: 25.8

Temperature Compensated Solution Conductivity (µ S/cm)* 1016

Instrument Response to Calibration Solution: 1056

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1515 Temperature of Solution: 36.5

Temperature Compensated Solution Conductivity (µ S/cm)* 1229

Instrument Response to Calibration Solution: 1248

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: _____ Temperature of Solution: _____

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: _____

Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

---

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

Conductivity (µ S/cm) = (Conductivity at 25°C) $(A + BT + CT^2)$

Where T = Temperature in °C

And

Conductivity @ 25°C (µ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

±4.5% to 6% of calibration solution if reading is > 150 and < 300 µmhos/cm on 500 scale; > 1500 and < 3000 µmhos/cm and 5000 scale; and > 15,000 and < 30,000 µmhos/cm on 50,000 scale.

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

APPENDIX D

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-1	45858	MW-983-079	16	8/6/98
MW-3-1	45490	MW-983-078	7	7/27/98
MW-3-2	45490	MW-983-077	7	7/27/98
MW-3-3	45490	MW-983-076	7	7/27/98
MW-3-4	45490	MW-983-075	7	7/27/98
MW-3-5	45490	MW-983-074	7	7/27/98
MW-4-1	45622	MW-983-073	11	7/30/98
MW-4-2	45563	MW-983-072	10	7/29/98
MW-4-2 Dup	45563	MW-983-071	10	7/29/98
MW-4-3	45622	MW-983-070	11	7/30/98
MW-4-4	45622	MW-983-069	11	7/30/98
MW-4-5	45622	MW-983-068	11	7/30/98
MW-5	45809	MW-983-067	15	8/5/98
MW-6	45809	MW-983-066	15	8/5/98
MW-7	45660	MW-983-065	12	7/31/98
MW-8	45809	MW-983-064	15	8/5/98
MW-9	45858	MW-983-063	16	8/6/98
MW-10	45809	MW-983-062	15	8/5/98
MW-10 Dup	45809	MW-983-061	15	8/5/98
MW-11-1	45525	MW-983-060	8	7/28/98
MW-11-2	45525	MW-983-059	8	7/28/98
MW-11-3	45525	MW-983-058	8	7/28/98
MW-11-4	45525	MW-983-057	8	7/28/98
MW-11-5	45525	MW-983-056	8	7/28/98
MW-12-1	45760	MW-983-055	14	8/4/98
MW-12-2	45711	MW-983-054	13	8/3/98
MW-12-2 Dup	45711	MW-983-053	13	8/3/98
MW-12-3	45711	MW-983-052	13	8/3/98
MW-12-4	45711	MW-983-051	13	8/3/98
MW-12-5	45711	MW-983-050	13	8/3/98
MW-13	45660	MW-983-049	12	7/31/98
MW-13 Dup	45660	MW-983-048	12	7/31/98
MW-14-1	45434	MW-983-047	6	7/24/98
MW-14-2	45434	MW-983-046	6	7/24/98
MW-14-3	45434	MW-983-045	6	7/24/98
MW-14-4	45434	MW-983-044	6	7/24/98
MW-14-5	45434	MW-983-043	6	7/24/98
MW-15	45858	MW-983-042	16	8/6/98
MW-16	45660	MW-983-041	12	7/31/98
MW-17-1	45234	MW-983-040	2	7/20/98
MW-17-2	45234	MW-983-039	2	7/20/98
MW-17-3	45563	MW-983-038	10	7/29/98
MW-17-4	45234	MW-983-037	2	7/20/98
MW-17-5	45234	MW-983-036	2	7/20/98

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-18-1	45204	MW-983-035	1	7/17/98
MW-18-2	45204	MW-983-034	1	7/17/98
MW-18-3	45204	MW-983-033	1	7/17/98
MW-18-4	45204	MW-983-032	1	7/17/98
MW-18-5	45204	MW-983-031	1	7/17/98
MW-19-1	45286	MW-983-030	3	7/21/98
MW-19-2	45286	MW-983-029	3	7/21/98
MW-19-3	45286	MW-983-028	3	7/21/98
MW-19-4	45286	MW-983-027	3	7/21/98
MW-19-5	45286	MW-983-026	3	7/21/98
MW-20-1	45315	MW-983-025	4	7/22/98
MW-20-2	45315	MW-983-024	4	7/22/98
MW-20-3	45315	MW-983-023	4	7/22/98
MW-20-4	45315	MW-983-022	4	7/22/98
MW-20-5	45315	MW-983-021	4	7/22/98
MW-21-1	45394	MW-983-020	5	7/23/98
MW-21-2	45394	MW-983-019	5	7/23/98
MW-21-3	45394	MW-983-018	5	7/23/98
MW-21-4	45394	MW-983-017	5	7/23/98
MW-21-5	45394	MW-983-016	5	7/23/98
MW-22-1	45995	MW-983-015	19	8/11/98
MW-22-2	45995	MW-983-014	19	8/11/98
MW-22-3	45979	MW-983-013	18	8/10/98
MW-22-4	45979	MW-983-012	18	8/10/98
MW-22-5	45979	MW-983-011	18	8/10/98
MW-23-1	46131	MW-983-010	20	8/13/98
MW-23-2	46131	MW-983-009	20	8/13/98
MW-23-3	46131	MW-983-008	20	8/13/98
MW-23-4	46131	MW-983-007	20	8/13/98
MW-23-5	46131	MW-983-006	20	8/13/98
MW-24-1	45563	MW-983-005	10	7/29/98
MW-24-2	45927	MW-983-004	17	8/7/98
MW-24-3	45927	MW-983-003	17	8/7/98
MW-24-4	45927	MW-983-002	17	8/7/98
MW-24-5	45760	MW-983-001	14	8/4/98

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
TB	45204	MW-983-080	1	7/17/98
EB	45204	MW-983-081	1	7/17/98
TB	45234	MW-983-082	2	7/20/98
EB	45234	MW-983-083	2	7/20/98
TB	45286	MW-983-084	3	7/21/98
EB	45286	MW-983-085	3	7/21/98
TB	45315	MW-983-086	4	7/22/98
EB	45315	MW-983-087	4	7/22/98
TB	45394	MW-983-088	5	7/23/98
EB	45394	MW-983-089	5	7/23/98
TB	45434	MW-983-090	6	7/24/98
EB	45434	MW-983-091	6	7/24/98
TB	45490	MW-983-092	7	7/27/98
EB	45490	MW-983-093	7	7/27/98
TB	45525	MW-983-094	8	7/28/98
EB	45525	MW-983-095	8	7/28/98
TB	45563	MW-983-096	10	7/29/98
EB	45563	MW-983-097	10	7/29/98
TB	45622	MW-983-099	11	7/30/98
EB	45622	MW-983-100	11	7/30/98
TB	45660	MW-983-101	12	7/31/98
TB	45711	MW-983-102	13	8/3/98
EB	45711	MW-983-103	13	8/3/98
TB	45760	MW-983-104	14	8/4/98
EB	45760	MW-983-105	14	8/4/98
TB	45809	MW-983-106	15	8/5/98
TB	45858	MW-983-107	16	8/6/98
TB	45927	MW-983-108	17	8/7/98
EB	45927	MW-983-109	17	8/7/98
TB	45979	MW-983-110	18	8/10/98
EB	45979	MW-983-111	18	8/10/98
TB	45995	MW-983-112	19	8/11/98
EB	45995	MW-983-113	19	8/11/98
TB	46131	MW-983-114	20	8/13/98
EB	46131	MW-983-115	20	8/13/98
FB	45660	MW-983-200	12	7/31/98

ANALYTICAL RESULTS INDEX

1,4 DIOXANE & NDMA RESULTS

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-4-2	45562	MW-983-072	9	7/29/98
MW-7	45659	MW-983-065	9	7/31/98
MW-13	45659	MW-983-049	9	7/31/98
MW-16	45659	MW-983-041	9	7/31/98
MW-17-3	45562	MW-983-038	9	7/29/98
MW-24-1	45562	MW-983-005	9	7/29/98

MONTGOMERY WATSON LABORATORIES

September 15, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 45204 (MW-983-080, -081, -031, -032, -033, -034, -035)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.

Samples requiring dilution (with increased MRL's):
None

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-034
Carbon Tetrachloride was detected in sample ID: MW-983-032
Chloroform was detected in sample ID: MW-983-032, -033, -034
Tetrachloroethylene was detected in sample ID: MW-983-032, -033
Trichloroethylene was detected in sample ID: MW-983-032, -033
Chromium was detected in sample ID: MW-983-033
Perchlorate was detected in sample ID: MW-983-032, -033

TICS:
An unknown hydrocarbon was detected at RT=7.14 in sample ID: MW-983-081, -035
Hexane was detected in sample ID: MW-983-031

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 818-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45204
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/17/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled			Matrix		Sample Date
980717130	MW-983-080				Water		07/17/98
		@EBASVOA					
980717131	MW-983-081				Water		07/17/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	CR-VI	
		CLO4					
980717132	MW-983-031				Water		07/17/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
980717133	MW-983-032				Water		07/17/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
980717134	MW-983-033				Water		07/17/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980717135	MW-983-034				Water		07/17/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980717136	MW-983-035				Water		07/17/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45204
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

Temp: 9-10
ice: FRN

NUMBER 2659

FOSTER WHEELER ENVIRONMENTAL CORPORATION

45204

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL	OFS NO.: 1572 0250
PROJECT ADDRESS: 4800 Oak Grove Dr Pasadena CA	
SAMPLER (Name): J Brown	SAMPLER (Signature):
LABORATORY: Montgomery Watson Labs	
REPORTS TO BE SENT TO: M2 Mail Cutoff	

HAZARD IDENTIFICATION: Non Hazard [X] Reactive [ ] Flammable [ ] Toxic [ ] Skin Irritant [ ] Infectious [ ]

TIME REQUIRED: NORMAL [X] ____ DAYS RUSH [ ] ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (5242)	Total Cr, Ni, Cu Metals (6010/7000)	Major Anions & TDS	Cr^{6+}	ClO_4^-	MS VOC	MSD VOC	MS/MSD Metals	Cr, Ni, Cu
MW-983-030	0330	7/17/95	2	2x40ml	X		980717130	X								
MW-983-031	0345		5	2x40ml 2x125ml 1x250ml	X		980717131	X	X		X	X				
MW-983-031	1010		6	2x40ml 2x500ml 2x125ml	X		980717132	X	X	X	X	X			X	X
MW-983-031MS	1010		2	2x40ml	X								X			
MW-983-031MSD	1010		2	2x40ml	X									X		
MW-983-032	1130		6	2x40ml 1x250ml 2x125ml 1x500ml	X		980717133	X	X	X	X	X				
MW-983-033	1240		6		X		980717134	X	X	X	X	X				
MW-983-034	1335		6		X		980717135	X	X	X	X	X				
MW-983-035	1430		6		X		980717136	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ~~ENSR APCH~~ Date Received: 7-17-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 7-17-98

by (print) MIKE CHUANG (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: ~~7-17-98~~

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: (2) opening of cooler
   If Yes, enter the following: seal date: 7-17-98, seal name: S.B

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No)

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: MC (date) 7-17-98

B. LOG-IN PHASE: Date samples were logged-in: 7-17-98 by:
   (print) MIKE CHUANG (sign) [signature]

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? (Yes) No

Report Summary of positive results, PR45204

			Result	MDL	UNITS
Analyzed	980717130	MW-983-080			
Analyzed	980717131	MW-983-081			
Analyzed	980717132	MW-983-031			
07/21/98	Alkalinity		130	2.000	MGL
07/27/98	Anion Sum		2.98	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		154	.001	MGL
08/21/98	Calcium, Total, ICAP		8.0	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		10.0	.001	MGL
08/23/98	Cation Sum		3.31	.001	MEQL
07/17/98	Chloride		10	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		125	******	UGL
07/22/98	Lab pH		9.0	.001	UNIT
08/19/98	Magnesium, Total, ICAP		5.1	.100	MGL
08/19/98	Potassium, Total, ICAP		2.0	1.000	MGL
08/19/98	Sodium, Total, ICAP		56	1.000	MGL
07/23/98	Specific Conductance		315	4.000	UMHO
07/17/98	Sulfate		4.6	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)		210	10.000	MGL
Analyzed	980717133	MW-983-032			
07/21/98	Carbon Tetrachloride		2.5	.500	UGL
07/21/98	Chloroform (Trichloromethane)		0.6	.500	UGL
07/21/98	Tetrachloroethylene (PCE)		1.2	.500	UGL
07/21/98	Trichloroethylene (TCE)		0.6	.500	UGL
07/21/98	Alkalinity		170	2.000	MGL
07/27/98	Anion Sum		4.19	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		207	.001	MGL
08/21/98	Calcium, Total, ICAP		39	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		1.35	.001	MGL
08/23/98	Cation Sum		4.34	.001	MEQL
07/17/98	Chloride		9.0	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		490	******	UGL
07/22/98	Lab pH		8.0	.001	UNIT
08/19/98	Magnesium, Total, ICAP		11	.100	MGL
07/17/98	Nitrate-N by IC		0.78	.100	MGL
07/24/98	Perchlorate		16	4.000	UGL
08/19/98	Potassium, Total, ICAP		1.8	1.000	MGL
08/19/98	Sodium, Total, ICAP		33	1.000	MGL
07/23/98	Specific Conductance		420	4.000	UMHO
07/17/98	Sulfate		23	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)		240	10.000	MGL
Analyzed	980717134	MW-983-033			
07/21/98	Chloroform (Trichloromethane)		4.6	.500	UGL
07/21/98	Tetrachloroethylene (PCE)		0.9	.500	UGL
07/21/98	Trichloroethylene (TCE)		1.5	.500	UGL
07/21/98	Alkalinity		210	2.000	MGL
07/27/98	Anion Sum		5.47	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		256	.001	MGL

08/21/98	Calcium, Total, ICAP	60	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	1.32	.001	MGL
08/23/98	Cation Sum	5.69	.001	MEQL
07/17/98	Chloride	15	1.000	MGL
08/04/98	Chromium, Total, ICAP/MS	14	10.000	UGL
07/22/98	Lab pH	7.9	.001	UNIT
08/19/98	Magnesium, Total, ICAP	20	.100	MGL
07/17/98	Nitrate-N by IC	0.81	.100	MGL
07/24/98	Perchlorate	5.2	4.000	UGL
08/19/98	Potassium, Total, ICAP	3.6	1.000	MGL
08/19/98	Sodium, Total, ICAP	22	1.000	MGL
07/23/98	Specific Conductance	545	4.000	UMHO
07/17/98	Sulfate	38	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)	320	10.000	MGL
Analyzed	980717135 MW-983-034			
07/21/98	Chloroform (Trichloromethane)	0.9	.500	UGL
07/21/98	Alkalinity	160	2.000	MGL
07/27/98	Anion Sum	4.30	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated	195	.001	MGL
08/21/98	Calcium, Total, ICAP	48	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	0.309	.001	MGL
08/23/98	Cation Sum	4.62	.001	MEQL
07/17/98	Chloride	9.9	1.000	MGL
08/04/98	Iron, Total, ICAP/MS	180	******	UGL
07/22/98	Lab pH	7.4	.001	UNIT
08/19/98	Magnesium, Total, ICAP	16	.100	MGL
07/17/98	Nitrate-N by IC	0.96	.100	MGL
08/19/98	Potassium, Total, ICAP	2.9	1.000	MGL
08/19/98	Sodium, Total, ICAP	19	1.000	MGL
07/23/98	Specific Conductance	450	4.000	UMHO
07/17/98	Sulfate	36	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)	260	10.000	MGL
Analyzed	980717136 MW-983-035			
07/21/98	Alkalinity	145	2.000	MGL
07/27/98	Anion Sum	4.22	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated	177	.001	MGL
08/21/98	Calcium, Total, ICAP	45	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	0.182	.001	MGL
08/23/98	Cation Sum	4.20	.001	MEQL
07/17/98	Chloride	11	1.000	MGL
08/04/98	Iron, Total, ICAP/MS	140	******	UGL
07/22/98	Lab pH	7.2	.001	UNIT
08/19/98	Magnesium, Total, ICAP	15	.100	MGL
07/17/98	Nitrate-N by IC	1.9	.100	MGL
08/19/98	Potassium, Total, ICAP	2.5	1.000	MGL
08/19/98	Sodium, Total, ICAP	15	1.000	MGL
07/23/98	Specific Conductance	430	4.000	UMHO
07/17/98	Sulfate	42	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)	280	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

Report#: 45204
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report #45204

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
17-jul-1998 16:07:25

MW-983-080 (980717130) Sampled on 07/17/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/21/98	80997	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
07/21/98	80997	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
07/21/98	80997	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
07/21/98	80997	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1

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Laboratory Report #45204

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Laboratory Report #45204

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-081 (980717131) Sampled on 07/17/98								
07/22/98	08/08/98	82076	(S3113B/E200.9)	**Arsenic, Total, GF**	ND	mg/l	0.005	1
	07/24/98	81082	(MOD/EPA 300)	**Perchlorate**	ND	ug/l	4.0	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	**Chromium, Total, ICAP/MS**	ND	ug/l	10	1
	07/17/98	80824	(ML/SW 7196)	**Hexavalent chromium (Cr VI)**	ND	mg/l	0.005	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	**Lead, Total, ICAP/MS**	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	07/21/98	80997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory Report #45204

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown hydrocarbon (RT=7.14)	1.6	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		

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Laboratory Report #45204

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	106	% Rec		
MW-983-031 (980717132) Sampled on 07/17/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	2.98	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/21/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	8.0	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.31	meq/l	0.0010	1
	07/17/98	80871	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	10.0	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/17/98	80824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	315	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	125	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	154	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.0	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	5.1	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	56	mg/l	1.0	1
	07/17/98	80874	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	9.0	Units	0.0010	1
	07/17/98	80875	(ML/EPA 300.0)	Sulfate	4.6	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/21/98	80997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Hexane	4.6	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		
MW-983-032 (980717133) Sampled on 07/17/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	170	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	4.19	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/21/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	39	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.34	meq/l	0.0010	1
	07/17/98	80871	(ML/EPA 300)	Chloride	9.0	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	16	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.35	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/17/98	80824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	420	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	490	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	207	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	1.8	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	11	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	33	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/17/98	80874	(ML/EPA 300.0)	Nitrate-N by IC	0.78	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	07/17/98	80875	(ML/EPA 300.0)	Sulfate	23	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/21/98	80997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Carbon Tetrachloride	2.5	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.2	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-033 (980717134) Sampled on 07/17/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	210	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	5.47	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/21/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	60	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	5.69	meq/l	0.0010	1
	07/17/98	80871	(ML/EPA 300)	Chloride	15	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	5.2	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.32	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	14	ug/l	10	1
	07/17/98	80824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	545	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	256	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	3.6	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	20	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	22	mg/l	1.0	1
	07/17/98	80874	(ML/EPA 300.0)	Nitrate-N by IC	0.81	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.9	Units	0.0010	1
	07/17/98	80875	(ML/EPA 300.0)	Sulfate	38	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	320	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/21/98	80997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.6	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.9	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.5	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		
MW-983-034 (980717135)			**Sampled on 07/17/98**					
	07/21/98	82745	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	4.30	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/21/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	48	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.62	meq/l	0.0010	1
	07/17/98	80871	(ML/EPA 300)	Chloride	9.9	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.309	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/17/98	80824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	450	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	180	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.9	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	16	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	19	mg/l	1.0	1
	07/17/98	80874	(ML/EPA 300.0)	Nitrate-N by IC	0.96	mg/l	0.10	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.4	Units	0.0010	1
	07/17/98	80875	(ML/EPA 300.0)	Sulfate	36	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/21/98	80997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	109	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-035 (980717136) Sampled on 07/17/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	4.22	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/21/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	45	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.20	meq/l	0.0010	1
	07/17/98	80871	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.182	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/17/98	80824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	430	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	140	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	177	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.5	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	15	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	15	mg/l	1.0	1
	07/17/98	80874	(ML/EPA 300.0)	Nitrate-N by IC	1.9	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.2	Units	0.0010	1
	07/17/98	80875	(ML/EPA 300.0)	Sulfate	42	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/21/98	80997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/21/98	80997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/21/98	80997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/21/98	80997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown hydrocarbon (RT=7.14)	3.4	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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QC Batch #80824 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	1.2

QC Batch #80871 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717136		(0.00 - 0.00)	
LCS1	Chloride	25	26	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	27	108.0	(80.00 - 120.00)	
MSD	Chloride	25	27	108.0	(80.00 - 120.00)	0.00

QC Batch #80874 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717136		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.5	100.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.5	100.0	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.7	108.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.7	108.0	(80.00 - 120.00)	0.00

QC Batch #80875 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717136		(0.00 - 0.00)	
LCS1	Sulfate	50	52	104.0	(90.00 - 110.00)	
LCS2	Sulfate	50	52	104.0	(90.00 - 110.00)	0.00

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Criteria for MS and DUP are not applicable for ICR monitoring.

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MBLK	Sulfate	ND				
MS	Sulfate	50	55	110.0	(80.00 - 120.00)	
MSD	Sulfate	50	55	110.0	(80.00 - 120.00)	0.00

QC Batch #80975 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0720049		(0.00 - 0.00)	

QC Batch #80981 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0717134		(0.00 - 0.00)	

QC Batch #80997 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	6.94	86.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.24	103.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	8.24	103.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.03	87.9	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	6.21	77.6	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.37	79.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	6.24	78.0	(70.00 - 130.00)	2.1
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	7.78	97.2	(70.00 - 130.00)	

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MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.29	91.1	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.73	96.6	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.87	98.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.53	106.6	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Benzene	8	7.40	92.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	7.62	95.2	(70.00 - 130.00)	
MSD	Benzene	8	7.76	97.0	(70.00 - 130.00)	1.8
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	7.82	97.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.08	101.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.08	101.0	(70.00 - 130.00)	0.00
LCS1	Carbon Tetrachloride	8	6.98	87.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.91	98.9	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.29	91.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				

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MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.92	99.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.55	94.4	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.38	92.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.83	97.9	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.21	80.2	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.2	101.2	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.72	96.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.46	93.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	92	92.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	100	100.0	(80.00 - 120.00)	1.0

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LCS1	Toluene-d8	100	102	102.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	103	103.0		
MS	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	98	98.0	(80.00 - 120.00)	3.0
LCS1	4-Bromofluorobenzene	100	98	98.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	109	109.0		
MS	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	1.9
LCS1	trans-1,2-Dichloroethylene	8	6.42	80.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.35	91.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	7.46	93.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	7.19	89.9	(70.00 - 130.00)	3.7
LCS1	Trichlorotrifluoroethane(Freon	4	4.68	117.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.60	95.0	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	7.93	99.1	(70.00 - 130.00)	
MSD	Toluene	8	7.43	92.9	(70.00 - 130.00)	6.5
LCS1	Vinyl chloride (VC)	4	3.29	82.2	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #81082 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717136		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.6	98.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.5	102.5	(75.00 - 125.00)	4.5

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QC Batch #81108 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0716173		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #81920 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	5.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	0.00

QC Batch #81924 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	484	96.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	466	93.2	(85.00 - 115.00)	3.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	416	83.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	425	85.0	(70.00 - 130.00)	2.1

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Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #81925 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.2	96.0	(85.00 - 115.00)	3.1
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.3	97.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	22.3	111.5	(70.00 - 130.00)	14

QC Batch #82076 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	0.00

QC Batch #82712 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.3	102.6	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	51.8	103.6	(90.00 - 110.00)	0.97
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	51.0	102.0	(80.00 - 120.00)	1.6

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QC Batch #82714 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.5	102.5	(80.00 - 110.00)	1.5
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.7	103.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 120.00)	1.5

QC Batch #82716 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.4	102.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.7	103.5	(85.00 - 115.00)	1.5
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	1.5

QC Batch #82719 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.8	99.6	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	50.4	100.8	(80.00 - 120.00)	1.2
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.7	99.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	49.0	98.0	(80.00 - 120.00)	1.4

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#45204

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82745 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0721189		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.3	103.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.4	102.3	(90.00 - 110.00)	0.91
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	80.7	83.9	(80.00 - 120.00)	
MSD	Alkalinity	96.2	83.4	86.7	(80.00 - 120.00)	3.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

September 15, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 45234 (MW-983-082, -083, -036, -037, -039, -040)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.

Samples requiring dilution (with increased MRL's):
None

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7. All ion balances meet QC criteria.
Chloroform was detected in sample ID: MW-983-036, -037, -039
Tetrachloroethylene was detected in sample ID: MW-983-036, -037
Trichloroethylene was detected in sample ID: MW-983-036, -037
Chromium was detected in sample ID: MW-983-033
Lead was detected in sample ID: MW-983-039
Perchlorate was detected in sample ID: MW-983-036, -037

Results for MW-983-036 and MW-983-37 were re-analyzed past HT on 8/31/98 to verify results, per the request of Foster Wheeler. Most analytes confirmed. For MW-983-036, Trichloroethylene was detected at a significantly different concentration of 15 ppb vs the reported 8.9 ppb. Also, Tetrachloroethylene was significantly different at 1.1 ppb vs the reported 0.6 ppb. There were new detects for Dichloromethane. MWL believes the detection of Dichloromethane to be laboratory contamination. We were experiencing inconsistent contamination problems with this compound during this analysis.

TICS:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 818-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45234
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/20/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
980720045	MW-983-082		Water	
		@EBASVOA		07/20/98
980720046	MW-983-083		Water	
		@EBASVOA CR-MS AS-GF PB-MS CR-VI		07/20/98
		CLO4		
980720047	MW-983-036		Water	
		@EBASVOA CR-MS AS-GF PB-MS TDS		07/20/98
		ANION1 CATION1 PH EC HCO3 CO3		
		ALK NO3 SO4 CL FE-MS K		
		NA MG CA CR-VI CLO4		
980720048	MW-983-037		Water	
		@EBASVOA CLO4 CR-VI CA MG		07/20/98
		NA K FE-MS CL SO4 NO3		
		ALK CO3 HCO3 EC PH CATIO		
		ANION1 TDS PB-MS AS-GF CR-MS		
980720049	MW-983-039		Water	
		@EBASVOA CLO4 CR-VI CA MG		07/20/98
		NA K FE-MS CL SO4 NO3		
		ALK CO3 HCO3 EC PH CATIO		
		ANION1 TDS PB-MS AS-GF CR-MS		
980720050	MW-983-040		Water	
		@EBASVOA CLO4 CR-VI CA MG		07/20/98
		NA K FE-MS CL SO4 NO3		
		ALK CO3 HCO3 EC PH CATIO		
		ANION1 TDS PB-MS AS-GF CR-MS		

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45234
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

45 454

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 - 0251

PROJECT ADDRESS: 4800 Oak Grove Blvd. Pasadena, CA

SAMPLER (Name): Thomas Blaney

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Laboratories

REPORTS TO BE SENT TO: Mark Cutler

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ____ DAYS RUSH ☐ ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOC 524.2	Total Cr, As Pb (6010/7000)	Anions + TDS	Cr+6	ClO4	QC for Cr16				
MW-983-082	0820	7/20/98	2	40 ml	X			X									
MW-983-083	0825	↓	5	2x40, 1x250, 2x125	X			X	X		X	X					
MW-983-036	1025		6	2x40, 1x250, 1x500, 2x125	X		980720047	X	X	X	X	X	X				
MW-983-037	1145		6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X					
MW-983-039	1250		6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X					
MW-983-040	1345	↓	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X					

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[illegible]	[illegible]	[illegible]			
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY
[illegible]	[illegible]	[illegible]			

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 2-20-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 2-20-98

by (print) Mike Chirons (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2 opening of cooler
   If Yes, enter the following: seal date: 2-20-98, seal name: SB

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? (Yes) No

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: MS (date) 2-20-98

B. LOG-IN PHASE: Date samples were logged-in: 2-20-98 by:
(print) Mike Chirons (sign) MWL

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? (Yes) No

Report Summary of positive results, PR45234

			Result	MDL	UNITS
Analyzed	980720045	MW-983-082			
Analyzed	980720046	MW-983-083			
Analyzed	980720047	MW-983-036			
07/23/98	Chloroform (Trichloromethane)		2.0	.500	UGL
07/23/98	Tetrachloroethylene (PCE)		0.6	.500	UGL
07/23/98	Trichloroethylene (TCE)		8.9	.500	UGL
07/21/98	Alkalinity		170	2.000	MGL
07/27/98	Anion Sum		4.60	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		207	.001	MGL
08/19/98	Calcium, Total, ICAP		47	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		1.35	.001	MGL
08/23/98	Cation Sum		4.81	.001	MEQL
07/22/98	Chloride		13	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		750	******	UGL
07/22/98	Lab pH		8.0	.001	UNIT
08/19/98	Magnesium, Total, ICAP		14	.100	MGL
07/22/98	Nitrate-N by IC		2.6	.100	MGL
07/24/98	Perchlorate		13	4.000	UGL
08/19/98	Potassium, Total, ICAP		1.7	1.000	MGL
08/19/98	Sodium, Total, ICAP		29	1.000	MGL
07/23/98	Specific Conductance		470	4.000	UMHO
07/22/98	Sulfate		31	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)		280	10.000	MGL
Analyzed	980720048	MW-983-037			
07/23/98	Chloroform (Trichloromethane)		1.9	.500	UGL
07/23/98	Tetrachloroethylene (PCE)		0.6	.500	UGL
07/23/98	Trichloroethylene (TCE)		8.9	.500	UGL
07/21/98	Alkalinity		180	2.000	MGL
07/27/98	Anion Sum		4.81	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		219	.001	MGL
08/19/98	Calcium, Total, ICAP		49	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		0.898	.001	MGL
08/23/98	Cation Sum		4.86	.001	MEQL
07/22/98	Chloride		13	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		360	******	UGL
07/22/98	Lab pH		7.8	.001	UNIT
08/19/98	Magnesium, Total, ICAP		14	.100	MGL
07/22/98	Nitrate-N by IC		2.8	.100	MGL
07/24/98	Perchlorate		14	4.000	UGL
08/19/98	Potassium, Total, ICAP		1.7	1.000	MGL
08/19/98	Sodium, Total, ICAP		28	1.000	MGL
07/23/98	Specific Conductance		475	4.000	UMHO
07/22/98	Sulfate		31	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)		270	10.000	MGL
Analyzed	980720049	MW-983-039			
07/23/98	Chloroform (Trichloromethane)		2.4	.500	UGL
07/21/98	Alkalinity		120	2.000	MGL

07/27/98	Anion Sum	3.13	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated	142	.001	MGL
08/19/98	Calcium, Total, ICAP	18	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	9.23	.001	MGL
08/23/98	Cation Sum	3.36	.001	MEQL
07/22/98	Chloride	6.4	1.000	MGL
08/04/98	Iron, Total, ICAP/MS	690	******	UGL
07/22/98	Lab pH	9.0	.001	UNIT
08/04/98	Lead, Total, ICAP/MS	6.7	2.000	UGL
08/19/98	Magnesium, Total, ICAP	20	.100	MGL
07/22/98	Nitrate-N by IC	0.40	.100	MGL
08/19/98	Potassium, Total, ICAP	3.0	1.000	MGL
08/19/98	Sodium, Total, ICAP	17	1.000	MGL
07/23/98	Specific Conductance	320	4.000	UMHO
07/22/98	Sulfate	25	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)	190	10.000	MGL

Analyzed	980720050 MW-983-040			
07/21/98	Alkalinity	130	2.000	MGL
07/27/98	Anion Sum	3.20	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated	159	.001	MGL
08/19/98	Calcium, Total, ICAP	34	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	0.206	.001	MGL
08/23/98	Cation Sum	3.22	.001	MEQL
07/22/98	Chloride	4.4	1.000	MGL
07/22/98	Lab pH	7.3	.001	UNIT
08/19/98	Magnesium, Total, ICAP	11	.100	MGL
07/22/98	Nitrate-N by IC	0.53	.100	MGL
08/19/98	Potassium, Total, ICAP	2.1	1.000	MGL
08/19/98	Sodium, Total, ICAP	13	1.000	MGL
07/23/98	Specific Conductance	330	4.000	UMHO
07/22/98	Sulfate	21	2.000	MGL
07/22/98	Total Dissolved Solid (TDS)	190	10.000	MGL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

Report#: 45234
JPL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report #45234

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
20-jul-1998 15:31:44

MW-983-082 (980720045) Sampled on 07/20/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/23/98	81133	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
07/23/98	81133	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
07/23/98	81133	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
07/23/98	81133	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report #45234

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory Report #45234

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-083 (980720046) Sampled on 07/20/98								
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/20/98	80845	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	89	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	101	% Rec		
MW-983-036 (980720047) Sampled on 07/20/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	170	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	4.60	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	47	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.81	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	13	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.35	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/20/98	80845	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	470	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	750	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	207	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	1.7	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	14	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	29	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	2.6	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	31	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	8.9	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-983-037 (980720048)			**Sampled on**	**07/20/98**				
	07/21/98	82745	(ML/S2320B)	Alkalinity	180	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	4.81	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	49	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.86	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	07/24/98	81082	(MOD/EPA 300)	Perchlorate	14	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.898	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/20/98	80845	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	475	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	360	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	219	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	1.7	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	14	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	28	mg/l	1.0	1

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Laboratory
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#45234

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	2.8	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	31	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	8.9	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-039 (980720049) Sampled on 07/20/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	120	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	3.13	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	18	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.36	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	6.4	mg/l	1.0	1
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	9.23	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/20/98	80845	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80975	(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	690	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	142	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	3.0	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	20	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	17	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	0.40	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	6.7	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	9.0	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	25	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.4	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-983-040 (980720050)			**Sampled on**	**07/20/98**				
	07/21/98	82745	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	3.20	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	34	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.22	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	4.4	mg/l	1.0	1
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.206	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/20/98	80845	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80978	(ML/S2510B)	Specific Conductance	330	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	159	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.1	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	11	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	13	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	0.53	mg/l	0.10	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.3	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	21	mg/l	2.0	1
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory
QC Report
#45234

Foster Wheeler Environmental, Inc

QC Batch #80845 — Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720047		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(80.00 - 120.00)	1.2

QC Batch #80975 — Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0720049		(0.00 - 0.00)	

QC Batch #80978 — Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0721042		(0.00 - 0.00)	

QC Batch #80981 — Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0717134		(0.00 - 0.00)	

QC Batch #80990 — Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720050		(0.00 - 0.00)	
LCS1	Chloride	25	26	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	27	108.0	(80.00 - 120.00)	
MSD	Chloride	25	28	112.0	(80.00 - 120.00)	3.6

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

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Foster Wheeler Environmental, Inc
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QC Batch #80995 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720050		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.7	108.0	(90.00 - 110.00)	3.8
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.7	108.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.7	108.0	(80.00 - 120.00)	0.00

QC Batch #80999 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720050		(0.00 - 0.00)	
LCS1	Sulfate	50	52	104.0	(90.00 - 110.00)	
LCS2	Sulfate	50	52	104.0	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	55	110.0	(80.00 - 120.00)	
MSD	Sulfate	50	55	110.0	(80.00 - 120.00)	0.00

QC Batch #81082 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717136		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.6	98.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.5	102.5	(75.00 - 125.00)	4.5

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Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #81084 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722075		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.0	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	4.1
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.6	88.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.7	93.5	(75.00 - 125.00)	6.1

QC Batch #81108 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0716173		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #81133 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.14	89.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.81	110.1	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	8.43	105.4	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.44	93.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	6.86	85.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.37	79.6	(70.00 - 130.00)	

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Criteria for MS and DUP are not applicable for ICR monitoring.

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MSD	1,1-Dichloroethylene	8	6.24	78.0	(70.00 - 130.00)	2.1
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.46	105.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.26	103.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.88	111.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Benzene	8	7.62	95.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	7.62	95.2	(70.00 - 130.00)	
MSD	Benzene	8	7.76	97.0	(70.00 - 130.00)	1.8
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	7.83	97.9	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	7.93	99.1	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.08	101.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.08	101.0	(70.00 - 130.00)	0.00
LCS1	Carbon Tetrachloride	8	7.50	93.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				

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MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	8	8.32	104.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	8	7.64	95.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Bromochloromethane	ND			
MBLK	Chloroethane	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	8	7.93	99.1	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	8	7.81	97.6	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	8	6.60	82.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	8	7.83	97.9	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	4	3.20	80.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	16	15.1	94.4	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	8	7.64	95.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.98	99.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	8	7.55	94.4	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	8	8.07	100.9	(70.00 - 130.00)

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MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	92	92.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	99	99.0		
MS	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	100	100.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	99	99.0		
MS	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	98	98.0	(80.00 - 120.00)	3.0
LCS1	4-Bromofluorobenzene	100	97	97.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	95	95.0		
MS	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	1.9
LCS1	trans-1,2-Dichloroethylene	8	7.09	88.6	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.44	93.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	7.46	93.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	7.19	89.9	(70.00 - 130.00)	3.7
LCS1	Trichlorotrifluoroethane(Freon	4	5.02	125.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.62	95.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	7.93	99.1	(70.00 - 130.00)	
MSD	Toluene	8	7.43	92.9	(70.00 - 130.00)	6.5
LCS1	Vinyl chloride (VC)	4	3.12	78.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #81920 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	5.9

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	0.00

QC Batch #81924 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	484	96.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	466	93.2	(85.00 - 115.00)	3.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	416	83.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	425	85.0	(70.00 - 130.00)	2.1

QC Batch #81925 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.2	96.0	(85.00 - 115.00)	3.1
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.3	97.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	22.3	111.5	(70.00 - 130.00)	14

QC Batch #82076 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
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Laboratory
QC Report
#45234

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82712 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.3	102.6	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	51.8	103.6	(90.00 - 110.00)	0.97
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	51.0	102.0	(80.00 - 120.00)	1.6

QC Batch #82714 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.5	102.5	(80.00 - 110.00)	1.5
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.7	103.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 120.00)	1.5

QC Batch #82716 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.4	102.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.7	103.5	(85.00 - 115.00)	1.5
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	1.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82719 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.8	99.6	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	50.4	100.8	(80.00 - 120.00)	1.2
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.7	99.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	49.0	98.0	(80.00 - 120.00)	1.4

QC Batch #82745 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0721189		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.3	103.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.4	102.3	(90.00 - 110.00)	0.91
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	80.7	83.9	(80.00 - 120.00)	
MSD	Alkalinity	96.2	83.4	86.7	(80.00 - 120.00)	3.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

September 15, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 45286 (MW-983-084, -085, -026, -027, -028, -029, -030)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.

Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-983-026, -027, -028, -029

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-027, -028, -029
Chloroform was detected in sample ID: MW-983-027
Tetrachloroethylene was detected in sample ID: MW-982-026, -028, -029
Trichloroethylene was detected in sample ID: MW-983-029
Lead was detected in sample ID: MW-983-026
Perchlorate was detected in sample ID: MW-983-028

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
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4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 818-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45286
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/21/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
980721187	MW-983-084		Water	
		@EBASVOA		07/21/98
980721188	MW-983-085		Water	
		@EBASVOA AS-GF CR-MS PB-MS CR-VI		07/21/98
		CLO4		
980721189	MW-983-026		Water	
		@EBASVOA AS-GF CR-MS PB-MS TDS		07/21/98
		CATION1 ANION1 PH EC HCO3		CO3
		ALK NO3 SO4 CL FE-MS		K
		NA MG CA CR-VI CLO4		
980721190	MW-983-027		Water	
		@EBASVOA AS-GF CR-MS PB-MS TDS		07/21/98
		CATION1 ANION1 PH EC HCO3		CO3
		ALK NO3 SO4 CL FE-MS		K
		NA MG CA CR-VI CLO4		
980721191	MW-983-028		Water	
		@EBASVOA CLO4 CR-VI CA MG		07/21/98
		NA K FE-MS CL SO4		NO3
		ALK CO3 HCO3 EC PH		ANION
		CATION1 TDS PB-MS CR-MS AS-GF		
980721192	MW-983-029		Water	
		@EBASVOA CLO4 CR-VI CA MG		07/21/98
		NA K FE-MS CL SO4		NO3
		ALK CO3 HCO3 EC PH		ANION
		CATION1 TDS PB-MS CR-MS AS-GF		
980721193	MW-983-030		Water	
		@EBASVOA CLO4 CR-VI CA MG		07/21/98
		NA K FE-MS CL SO4		NO3
		ALK CO3 HCO3 EC PH		ANION
		CATION1 TDS PB-MS CR-MS AS-GF		

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45286
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE DR, PASADENA CA

SAMPLER (Name): J. BRENNER

SAMPLER (Signature): J B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ____ DAYS RUSH ☐ ____ DAYS

[redacted]

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL As Cr Pb Cations (Calc/Total)	MAJOR ANIONS + TDS	HEX Cr	ClO_4^-	MS for VOCs	MSD for VOCs	MS/MSD for METALS	QC for Cr^{6+}	
MW-983-084	0800	7/21/98	2	2x40ml	X		98C721187	X									
MW-983-085	0815	↓	5	2x40ml 1x250ml 2x125ml	X		188	X	X		X	X					
MW-983-026	0850	↓	6	2x40ml 2x500ml 2x125ml	X		189	X	X	X	X	X			X		
MW-983-026MS	0850	↓	2	2x40ml	X		↓						X				
MW-983-026MSD	0850	↓	2	2x40ml	X		↓							X			
MW-983-027	0950	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X		190	X	X	X	X	X					
MW-983-028	1100	↓	6	↓	X		1.1	X	X	X	X	X				X	
MW-983-029	1150	↓	6	↓	X		112	X	X	X	X	X					
MW-983-030	1240	↓	6	↓	X		11[illegible]	X	X	X	X	X					

LABORATORY INSTRUCTIONS/COMMENTS:

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
J. Brenner	7/21/98	[illegible signature]			
COMPANY: FWENC	TIME: 1525	COMPANY: [illegible]	COMPANY:	TIME:	COMPANY:

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 7-21-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: ______
by (print) Mike Chhuy (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes No (circled)
   If YES, attach & enter carrier and air bill # here: ______

2. Were custody seals on outside of cooler? Yes (circled) No
   If YES, how many & where: 2 outside of cooler
   If Yes, enter the following: seal date: 7-21-98, seal name: TBB

3. Were custody seals unbroken & intact at delivery? Yes (circled) No

4. Were custody papers sealed in bag & taped to lid? Yes (crossed out) No (circled) — hand deliver

5. Were custody papers filled out properly (ink, etc.) Yes (circled) No

6. Did you sign custody papers in appropriate place? Yes (circled) No

7. Was project identifiable from custody papers? Yes (circled) No

8. Have designated person(s) initial to acknowledge receipt: MC (date) 7-21-98

B. LOG-IN PHASE: Date samples were logged-in: 7/21 by:
(print) Mike Chhuy (sign) [signature]

9. Describe packing:

10. If required, was enough ice used? Yes (circled) No

11. Were all bottles sealed in separate plastic bags? Yes (circled) No

12. Did all bottles arrive unbroken/in good condition? Yes (circled) No

13. Were all bottle labels complete (ID,date,sign,pres)? Yes (circled) No

14. Did all bottle labels agree with custody papers? Yes (circled) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? Yes (circled) No

16. Were correct preservatives used when required? Yes (circled) No

17. Was sufficient amount of sample sent for tests? Yes (circled) No

18. Bubbles absent in VOA vials? Yes (circled) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes (circled) No

Report Summary of positive results, PR45286

			Result	MDL	UNITS
Analyzed	980721187	MW-983-084			
Analyzed	980721188	MW-983-085			
Analyzed	980721189	MW-983-026			
07/23/98	Tetrachloroethylene (PCE)		1.5	.500	UGL
07/21/98	Alkalinity		230	2.000	MGL
07/27/98	Anion Sum		8.57	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		280	.001	MGL
08/19/98	Calcium, Total, ICAP		88	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		1.15	.001	MGL
08/23/98	Cation Sum		8.50	.001	MEQL
07/22/98	Chloride		70	2.000	MGL
08/04/98	Iron, Total, ICAP/MS		350	******	UGL
07/22/98	Lab pH		7.8	.001	UNIT
08/04/98	Lead, Total, ICAP/MS		9.9	2.000	UGL
08/19/98	Magnesium, Total, ICAP		32	.100	MGL
07/22/98	Nitrate-N by IC		8.4	.200	MGL
08/19/98	Potassium, Total, ICAP		2.9	1.000	MGL
08/19/98	Sodium, Total, ICAP		32	1.000	MGL
07/23/98	Specific Conductance		850	4.000	UMHO
07/22/98	Sulfate		67	4.000	MGL
07/22/98	Total Dissolved Solid (TDS)		500	10.000	MGL
Analyzed	980721190	MW-983-027			
07/23/98	Chloroform (Trichloromethane)		1.4	.500	UGL
07/21/98	Alkalinity		195	2.000	MGL
07/27/98	Anion Sum		5.93	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		238	.001	MGL
08/19/98	Calcium, Total, ICAP		66	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		0.489	.001	MGL
08/23/98	Cation Sum		6.48	.001	MEQL
07/22/98	Chloride		29	2.000	MGL
08/04/98	Iron, Total, ICAP/MS		360	******	UGL
07/22/98	Lab pH		7.5	.001	UNIT
08/19/98	Magnesium, Total, ICAP		24	.100	MGL
07/22/98	Nitrate-N by IC		4.1	.200	MGL
08/19/98	Potassium, Total, ICAP		2.8	1.000	MGL
08/19/98	Sodium, Total, ICAP		26	1.000	MGL
07/23/98	Specific Conductance		615	4.000	UMHO
07/22/98	Sulfate		44	4.000	MGL
07/22/98	Total Dissolved Solid (TDS)		350	10.000	MGL
Analyzed	980721191	MW-983-028			
07/23/98	Tetrachloroethylene (PCE)		2.1	.500	UGL
07/21/98	Alkalinity		225	2.000	MGL
07/27/98	Anion Sum		9.68	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated		274	.001	MGL
08/19/98	Calcium, Total, ICAP		110	1.000	MGL
07/21/98	Carbonate as CO3, Calculated		0.224	.001	MGL
08/23/98	Cation Sum		10.4	.001	MEQL

07/22/98	Chloride	94	2.000	MGL
08/04/98	Iron, Total, ICAP/MS	950	******	UGL
07/22/98	Lab pH	7.1	.001	UNIT
08/19/98	Magnesium, Total, ICAP	40	.100	MGL
07/22/98	Nitrate-N by IC	10	.200	MGL
07/24/98	Perchlorate	4.4	4.000	UGL
08/19/98	Potassium, Total, ICAP	3.8	1.000	MGL
08/19/98	Sodium, Total, ICAP	34	1.000	MGL
07/23/98	Specific Conductance	980	4.000	UMHO
07/22/98	Sulfate	87	4.000	MGL
07/22/98	Total Dissolved Solid (TDS)	570	10.000	MGL
Analyzed	980721192 MW-983-029			
07/23/98	Tetrachloroethylene (PCE)	0.7	.500	UGL
07/23/98	Trichloroethylene (TCE)	0.6	.500	UGL
07/21/98	Alkalinity	190	2.000	MGL
07/27/98	Anion Sum	6.85	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated	232	.001	MGL
08/19/98	Calcium, Total, ICAP	79	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	0.095	.001	MGL
08/23/98	Cation Sum	7.36	.001	MEQL
07/22/98	Chloride	42	2.000	MGL
08/04/98	Iron, Total, ICAP/MS	380	******	UGL
07/22/98	Lab pH	6.8	.001	UNIT
08/19/98	Magnesium, Total, ICAP	30	.100	MGL
07/22/98	Nitrate-N by IC	5.7	.200	MGL
08/19/98	Potassium, Total, ICAP	2.9	1.000	MGL
08/19/98	Sodium, Total, ICAP	20	1.000	MGL
07/23/98	Specific Conductance	695	4.000	UMHO
07/22/98	Sulfate	70	4.000	MGL
07/27/98	Total Dissolved Solid (TDS)	440	10.000	MGL
Analyzed	980721193 MW-983-030			
07/21/98	Alkalinity	120	2.000	MGL
07/27/98	Anion Sum	2.95	.001	MEQL
07/21/98	Bicarbonate as HCO3,calculated	146	.001	MGL
08/19/98	Calcium, Total, ICAP	34	1.000	MGL
07/21/98	Carbonate as CO3, Calculated	0.189	.001	MGL
08/23/98	Cation Sum	3.24	.001	MEQL
07/22/98	Chloride	4.3	1.000	MGL
08/04/98	Iron, Total, ICAP/MS	670	******	UGL
07/22/98	Lab pH	7.3	.001	UNIT
08/19/98	Magnesium, Total, ICAP	11	.100	MGL
07/22/98	Nitrate-N by IC	0.4	.100	MGL
08/19/98	Potassium, Total, ICAP	2.6	1.000	MGL
08/19/98	Sodium, Total, ICAP	13	1.000	MGL
07/23/98	Specific Conductance	300	4.000	UMHO
07/22/98	Sulfate	19	2.000	MGL
07/27/98	Total Dissolved Solid (TDS)	200	10.000	MGL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report

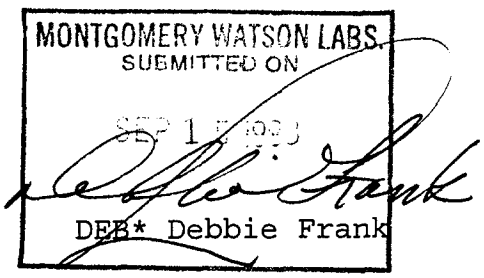
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560



Report#: 45286
JPL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#45286

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
21-jul-1998 15:43:30

MW-983-084 (980721187) Sampled on 07/21/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-085 (980721188) Sampled on 07/21/98								
07/22/98	08/08/98	82076	(S3113B/E200.9)	**Arsenic, Total, GF**	ND	mg/l	0.005	1
	07/24/98	81084	(MOD/EPA 300)	**Perchlorate**	ND	ug/l	4.0	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	**Chromium, Total, ICAP/MS**	ND	ug/l	10	1
	07/21/98	80891	(ML/SW 7196)	**Hexavalent chromium (Cr VI)**	ND	mg/l	0.005	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	**Lead, Total, ICAP/MS**	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	103	% Rec		
MW-983-026 (980721189) Sampled on 07/21/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	230	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	8.57	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	88	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	8.50	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	70	mg/l	2.0	2
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.15	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/21/98	80891	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80979	(ML/S2510B)	Specific Conductance	850	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	350	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	280	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.9	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	32	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	32	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	8.4	mg/l	0.20	2
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	9.9	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	67	mg/l	4.0	2
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	500	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	95	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-983-027 (980721190) Sampled on 07/21/98

	07/21/98	82745	(ML/S2320B)	Alkalinity	195	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	5.93	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	66	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	6.48	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	29	mg/l	2.0	2
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.489	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/21/98	80891	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80979	(ML/S2510B)	Specific Conductance	615	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	360	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	238	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.8	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	24	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	26	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	4.1	mg/l	0.20	2
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.5	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	44	mg/l	4.0	2
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	350	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.4	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-028 (980721191) Sampled on 07/21/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	225	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	9.68	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	110	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	10.4	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	94	mg/l	2.0	2
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	4.4	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.224	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/21/98	80891	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80979	(ML/S2510B)	Specific Conductance	980	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	950	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	274	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	3.8	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	40	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	34	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	10	mg/l	0.20	2
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.1	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	87	mg/l	4.0	2
	07/22/98	81108	(ML/S2540C)	Total Dissolved Solid (TDS)	570	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.1	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		
MW-983-029 (980721192)			**Sampled on**	**07/21/98**				
	07/21/98	82745	(ML/S2320B)	Alkalinity	190	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	6.85	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	79	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	7.36	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	42	mg/l	2.0	2
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.095	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/21/98	80891	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80979	(ML/S2510B)	Specific Conductance	695	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	380	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	232	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.9	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	30	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	20	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	5.7	mg/l	0.20	2

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	6.8	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	70	mg/l	4.0	2
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	440	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	91	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-030 (980721193) Sampled on 07/21/98								
	07/21/98	82745	(ML/S2320B)	Alkalinity	120	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	2.95	meq/l	0.0010	1
07/22/98	08/08/98	82076	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	34	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.24	meq/l	0.0010	1
	07/22/98	80990	(ML/EPA 300)	Chloride	4.3	mg/l	1.0	1
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/21/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.189	mg/l	0.0010	1
07/22/98	08/04/98	81920	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/21/98	80891	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/23/98	80979	(ML/S2510B)	Specific Conductance	300	umho/cm	4.0	1
07/22/98	08/04/98	81924	(EPA/ML 200.8)	Iron, Total, ICAP/MS	670	ug/l	100	1
	07/21/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	146	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	11	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	13	mg/l	1.0	1
	07/22/98	80995	(ML/EPA 300.0)	Nitrate-N by IC	0.4	mg/l	0.10	1
07/22/98	08/04/98	81925	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/22/98	80981	(ML/SM 4500H)	Lab pH	7.3	Units	0.0010	1
	07/22/98	80999	(ML/EPA 300.0)	Sulfate	19	mg/l	2.0	1
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/23/98	81133	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/23/98	81133	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81133	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/23/98	81133	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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QC Batch #80891 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0721191		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(80.00 - 120.00)	1.2

QC Batch #80979 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0721193		(0.00 - 0.00)	

QC Batch #80981 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0717134		(0.00 - 0.00)	

QC Batch #80990 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720050		(0.00 - 0.00)	
LCS1	Chloride	25	26	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	27	108.0	(80.00 - 120.00)	
MSD	Chloride	25	28	112.0	(80.00 - 120.00)	3.6

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Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #80995 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720050		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.7	108.0	(90.00 - 110.00)	3.8
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.7	108.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.7	108.0	(80.00 - 120.00)	0.00

QC Batch #80999 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0720050		(0.00 - 0.00)	
LCS1	Sulfate	50	52	104.0	(90.00 - 110.00)	
LCS2	Sulfate	50	52	104.0	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	55	110.0	(80.00 - 120.00)	
MSD	Sulfate	50	55	110.0	(80.00 - 120.00)	0.00

QC Batch #81084 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722075		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.0	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	4.1
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.6	88.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.7	93.5	(75.00 - 125.00)	6.1

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QC Batch #81108 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0716173		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #81133 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.14	89.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.81	110.1	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	8.43	105.4	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.44	93.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	6.86	85.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.37	79.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	6.24	78.0	(70.00 - 130.00)	2.1
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.46	105.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				

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MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.26	103.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.88	111.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Benzene	8	7.62	95.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	7.62	95.2	(70.00 - 130.00)	
MSD	Benzene	8	7.76	97.0	(70.00 - 130.00)	1.8
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	7.83	97.9	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	7.93	99.1	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.08	101.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.08	101.0	(70.00 - 130.00)	0.00
LCS1	Carbon Tetrachloride	8	7.50	93.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.32	104.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.64	95.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.93	99.1	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				

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LCS1	Bromodichloromethane	8	7.81	97.6	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	6.60	82.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.83	97.9	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.20	80.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	15.1	94.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	7.64	95.5	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.98	99.8	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.55	94.4	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.07	100.9	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	92	92.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	99	99.0		
MS	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	100	100.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	99	99.0		
MS	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	98	98.0	(80.00 - 120.00)	3.0
LCS1	4-Bromofluorobenzene	100	97	97.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	95	95.0		

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MS	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	1.9
LCS1	trans-1,2-Dichloroethylene	8	7.09	88.6	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.44	93.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	7.46	93.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	7.19	89.9	(70.00 - 130.00)	3.7
LCS1	Trichlorotrifluoroethane(Freon	4	5.02	125.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.62	95.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	7.93	99.1	(70.00 - 130.00)	
MSD	Toluene	8	7.43	92.9	(70.00 - 130.00)	6.5
LCS1	Vinyl chloride (VC)	4	3.12	78.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #81389 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0721192		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	664	94.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #81920 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	5.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	

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MSD	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	0.00

QC Batch #81924 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	484	96.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	466	93.2	(85.00 - 115.00)	3.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	416	83.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	425	85.0	(70.00 - 130.00)	2.1

QC Batch #81925 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.2	96.0	(85.00 - 115.00)	3.1
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.3	97.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	22.3	111.5	(70.00 - 130.00)	14

QC Batch #82076 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	0.00

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Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #82712 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.3	102.6	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	51.8	103.6	(90.00 - 110.00)	0.97
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	51.0	102.0	(80.00 - 120.00)	1.6

QC Batch #82714 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.5	102.5	(80.00 - 110.00)	1.5
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.7	103.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 120.00)	1.5

QC Batch #82716 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.4	102.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.7	103.5	(85.00 - 115.00)	1.5
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	1.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#45286

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82719 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.8	99.6	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	50.4	100.8	(80.00 - 120.00)	1.2
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.7	99.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	49.0	98.0	(80.00 - 120.00)	1.4

QC Batch #82745 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0721189		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.3	103.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.4	102.3	(90.00 - 110.00)	0.91
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	80.7	83.9	(80.00 - 120.00)	
MSD	Alkalinity	96.2	83.4	86.7	(80.00 - 120.00)	3.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

September 15, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 45315 (MW-983-086, -087, -021, -022, -023, -024, -025)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.
(Fe-MS) QC batch 82086: The MS/MSD for the Iron analysis on 8/4/98, prepared 8/3/98, recovered below the MWL and the CRRL acceptance limits. The Laboratory Control Sample and Method Blank prepared simultaneously are acceptable. The RPD for the MS/MSD is acceptable. The sample used for MS/MSD was not a part of this report group. There is no qualification necessary for the data reported. All data reported is acceptable.

Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-983-025

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-021, -022, -023, -024, -025
Bromodichloromethane was detected in sample ID: MW-983-024
Chloroform was detected in sample ID: MW-983-024, -025
Perchlorate is reported as ND for sample ID: MW-983-021, -022
There is an unknown interferent in these samples, which elutes at a similar retention time to Perchlorate by the IC method, EPA 300.0. This detect was determined not to be Perchlorate through confirmation spiking of the sample with Perchlorate. The spiked Perchlorate eluted at a slightly longer RT than the unknown compounded detected. Please reference the July 31 letter, which is attached.

TICS:
An unknown compound was detected at RT=3.93 in sample ID: MW-983-087

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
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4820 South Mill Avenue
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Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 818-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45315
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/22/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix				Sample Date
980722069	MW-983-086		Water				07/22/98
		@EBASVOA					
980722070	MW-983-087		Water				07/22/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	CR-VI	
		CLO4					
980722071	MW-983-021		Water				07/22/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
980722072	MW-983-022		Water				07/22/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
980722073	MW-983-023		Water				07/22/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980722074	MW-983-024		Water				07/22/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980722075	MW-983-025		Water				07/22/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0002
Group#: 45315
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2663

46315

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL
OFS NO: 1572 0251
PROJECT ADDRESS: 4800 OAK GROVE BLVD. PASADENA, CA.
SAMPLER (Name): THOMAS BLANEY
SAMPLER (Signature):
LABORATORY: MONTGOMERY LABORATORIES
REPORTS TO BE SENT TO: MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard [X] Reactive [ ] Flammable [ ] Toxic [ ] Skin Irritant [ ] Infectious [ ]

TIME REQUIRED: NORMAL [X] ____ DAYS; RUSH [ ] ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs 524.2	Soluble (TOTAL) Cr, Ni, Pb (6010/7000)	Anions + TDS	Cr+6	ClO4	QC for Cr+6
MW-983-086	0810	7/22/98	2		X	9[illegible]7220649		X					
MW-983-087	0815	↓	5		X		70	X	X		X	X	
MW-983-021	0910		6		X		71	X	X	X	X	X	X
MW-983-022	1045		6		X		72	X	X	X	X	X	
MW-983-023	1155		6		X		73	X	X	X	X	X	
MW-983-024	1255		6		X		74	X	X	X	X	X	
MW 983-025	1345	↓	6		X		75	X	X	X	X	X	

LABORATORY INSTRUCTIONS/COMMENTS: Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME 14:12	COMPANY M.W.	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 7-22-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 7-22-98

by (print) MIKE CHUANG (sign) Mike Chuang

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2 on opening of cooler
   If Yes, enter the following: seal date: 7-22-98, seal name: JB

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No) → hand-

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: MC (date) 7-22-98

B. LOG-IN PHASE: Date samples were logged-in: 7-22-98 by:
   (print) Mike Chuang (sign) Mike Chuang

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? (Yes) No

Report Summary of positive results, PR45315

			Result	MDL	UNITS
Analyzed	980722069	MW-983-086			
Analyzed	980722070	MW-983-087			
Analyzed	980722071	MW-983-021			
07/27/98	Alkalinity		140	2.000	MGL
07/27/98	Anion Sum		3.47	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		167	.001	MGL
08/19/98	Calcium, Total, ICAP		11	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		8.62	.001	MGL
08/23/98	Cation Sum		3.89	.001	MEQL
07/23/98	Chloride		8.3	1.000	MGL
07/25/98	Lab pH		8.9	.001	UNIT
08/19/98	Magnesium, Total, ICAP		3.1	.100	MGL
08/19/98	Potassium, Total, ICAP		1.8	1.000	MGL
08/19/98	Sodium, Total, ICAP		70	1.000	MGL
07/28/98	Specific Conductance		340	4.000	UMHO
07/23/98	Sulfate		21	2.000	MGL
07/27/98	Total Dissolved Solid (TDS)		220	10.000	MGL
Analyzed	980722072	MW-983-022			
07/27/98	Alkalinity		130	2.000	MGL
07/27/98	Anion Sum		3.24	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		156	.001	MGL
08/19/98	Calcium, Total, ICAP		11	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		5.08	.001	MGL
08/23/98	Cation Sum		3.70	.001	MEQL
07/23/98	Chloride		10	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		100	******	UGL
07/25/98	Lab pH		8.7	.001	UNIT
08/19/98	Magnesium, Total, ICAP		3.1	.100	MGL
08/19/98	Potassium, Total, ICAP		1.1	1.000	MGL
08/19/98	Sodium, Total, ICAP		66	1.000	MGL
07/28/98	Specific Conductance		365	4.000	UMHO
07/23/98	Sulfate		17	2.000	MGL
07/27/98	Total Dissolved Solid (TDS)		230	10.000	MGL
Analyzed	980722073	MW-983-023			
07/27/98	Alkalinity		190	2.000	MGL
07/27/98	Anion Sum		5.20	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		231	.001	MGL
08/19/98	Calcium, Total, ICAP		33	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		2.38	.001	MGL
08/23/98	Cation Sum		5.56	.001	MEQL
07/23/98	Chloride		28	1.000	MGL
07/25/98	Lab pH		8.2	.001	UNIT
08/19/98	Magnesium, Total, ICAP		15	.100	MGL
07/23/98	Nitrate-N by IC		2.1	.100	MGL
08/19/98	Potassium, Total, ICAP		2.6	1.000	MGL
08/19/98	Sodium, Total, ICAP		60	1.000	MGL
07/28/98	Specific Conductance		545	4.000	UMHO

07/23/98	Sulfate	22	2.000	MGL
07/27/98	Total Dissolved Solid (TDS)	350	10.000	MGL
Analyzed	980722074 MW-983-024			
07/24/98	Bromodichloromethane	0.5	.500	UGL
07/24/98	Chloroform (Trichloromethane)	3.7	.500	UGL
07/27/98	Alkalinity	150	2.000	MGL
07/27/98	Anion Sum	4.30	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated	183	.001	MGL
08/19/98	Calcium, Total, ICAP	43	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	1.19	.001	MGL
08/23/98	Cation Sum	4.61	.001	MEQL
07/24/98	Chloride	15	1.000	MGL
07/25/98	Lab pH	8.0	.001	UNIT
08/19/98	Magnesium, Total, ICAP	19	.100	MGL
07/24/98	Nitrate-N by IC	2.7	.100	MGL
08/19/98	Potassium, Total, ICAP	2.6	1.000	MGL
08/19/98	Sodium, Total, ICAP	19	1.000	MGL
07/28/98	Specific Conductance	455	4.000	UMHO
07/24/98	Sulfate	33	2.000	MGL
07/27/98	Total Dissolved Solid (TDS)	270	10.000	MGL
Analyzed	980722075 MW-983-025			
07/24/98	Chloroform (Trichloromethane)	1.8	.500	UGL
07/27/98	Alkalinity	160	2.000	MGL
07/27/98	Anion Sum	7.84	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated	195	.001	MGL
08/19/98	Calcium, Total, ICAP	94	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	0.401	.001	MGL
08/23/98	Cation Sum	8.41	.001	MEQL
07/24/98	Chloride	48	2.000	MGL
08/04/98	Iron, Total, ICAP/MS	144	******	UGL
07/25/98	Lab pH	7.5	.001	UNIT
08/19/98	Magnesium, Total, ICAP	31	.100	MGL
07/24/98	Nitrate-N by IC	11	.200	MGL
07/24/98	Perchlorate	5.9	4.000	UGL
08/19/98	Potassium, Total, ICAP	4.5	1.000	MGL
08/19/98	Sodium, Total, ICAP	24	1.000	MGL
07/28/98	Specific Conductance	835	4.000	UMHO
07/24/98	Sulfate	120	4.000	MGL
07/27/98	Total Dissolved Solid (TDS)	510	10.000	MGL

MONTGOMERY WATSON LABORATORIES

July 31, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Dear Mark,

During our analysis of samples MW-983-021 and MW-983-022, from the current round of sampling, we identified an interferent eluting at approximately the same retention time as Perchlorate. Because these samples are from the same well screens as samples MW-982-059 and MW-982-058, collected during the previous sampling event (April/May 1998), it appears that the Perchlorate reported in those previous samples are false positives. Here are the results for the above mentioned samples as originally reported.

Client ID	Date Sampled	Lab Sample #	Result(ppb)	Analyzed
MW-982-059	04/23/98	980423190	21	5/7/98
MW-982-058	04/23/98	980423191	21	5/7/98

Client ID	Date Sampled	Lab Sample #	Result (ppb)	Analyzed
MW-983-021	07/22/98	980722071	ND	7/29/98
(this would be 11 if quantified as CLO4)				
MW-983-022	07/22/98	980722-72	ND	7/24/98
(this would be 13 if quantified as CLO4)				

The retention time (RT) of the peak on all four analyses is within the window for Perchlorate. A standard addition was used for each analysis, to verify the retention time of Perchlorate in these samples. On the first set of samples, analyzed in May, the peak appears to be verified as Perchlorate, because the spiked Perchlorate eluted at the same RT as the original compound peak. However, during the current round of sampling, the RT for the Perchlorate peak was slightly longer than that for the compound detected in the sample, resulting in a split peak, demonstrating that the hits were not Perchlorate. The results for this current round will be reported as ND for Perchlorate based on this lack of confirmation of the Perchlorate detect.

Because these samples are all from the same well screens, it is the opinion of Montgomery Watson Laboratories that the original analyte reported as Perchlorate in the April/May samples (MW-982-059; MW-982-058) is not Perchlorate, but some as yet unidentified co-eluting compound. Several suspected compounds have been tested to identify the co-eluting peak, but none have yet been shown to be the cause of the interference. We will continue to evaluate the source of interference's.

Sincerely,

Debbie Frank
Project Manager

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
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Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

Report#: 45315
JPL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Report
Comments
#45315

(980722071)
CLO4
This sample contained a coeluting peak for perchlorate. This sample was used for spiking, in order to confirm the mis identified peak.

(980722072)
CLO4
This sample had a coeluting peak with perchlorate. A spiked sample was analyzed on 08/05/98 for confirmation.

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#45315

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
22-jul-1998 15:00:55

MW-983-086 (980722069) Sampled on 07/22/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
07/24/98	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-087 (980722070) Sampled on 07/22/98								
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/22/98	80971	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT=3.93	1.2	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	99	% Rec		
MW-983-021 (980722071) Sampled on 07/22/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	140	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	3.47	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	11	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.89	meq/l	0.0010	1
	07/23/98	81256	(ML/EPA 300)	Chloride	8.3	mg/l	1.0	1
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	8.62	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/22/98	80971	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81291	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	167	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	1.8	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	3.1	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	70	mg/l	1.0	1
	07/23/98	81257	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	8.9	Units	0.0010	1
	07/23/98	81258	(ML/EPA 300.0)	Sulfate	21	mg/l	2.0	1
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		
MW-983-022 (980722072)			**Sampled on**	**07/22/98**				
	07/27/98	82746	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	3.24	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	11	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.70	meq/l	0.0010	1
	07/23/98	81256	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	5.08	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/22/98	80971	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81291	(ML/S2510B)	Specific Conductance	365	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	100	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	156	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	1.1	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	3.1	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	66	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81257	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	8.7	Units	0.0010	1
	07/23/98	81258	(ML/EPA 300.0)	Sulfate	17	mg/l	2.0	1
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	230	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-023 (980722073) Sampled on 07/22/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	190	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	5.20	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	33	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	5.56	meq/l	0.0010	1
	07/23/98	81256	(ML/EPA 300)	Chloride	28	mg/l	1.0	1
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	2.38	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/22/98	80971	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81291	(ML/S2510B)	Specific Conductance	545	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	231	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	15	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	60	mg/l	1.0	1
	07/23/98	81257	(ML/EPA 300.0)	Nitrate-N by IC	2.1	mg/l	0.10	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	8.2	Units	0.0010	1
	07/23/98	81258	(ML/EPA 300.0)	Sulfate	22	mg/l	2.0	1
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	350	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		
MW-983-024 (980722074)			**Sampled on 07/22/98**					
	07/27/98	82746	(ML/S2320B)	Alkalinity	150	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	4.30	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	43	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.61	meq/l	0.0010	1
	07/24/98	81256	(ML/EPA 300)	Chloride	15	mg/l	1.0	1
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.19	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/22/98	80971	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81291	(ML/S2510B)	Specific Conductance	455	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	183	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	19	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	19	mg/l	1.0	1
	07/24/98	81257	(ML/EPA 300.0)	Nitrate-N by IC	2.7	mg/l	0.10	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	07/24/98	81258	(ML/EPA 300.0)	Sulfate	33	mg/l	2.0	1
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.7	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	0.5	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	93	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-025 (980722075) Sampled on 07/22/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	07/27/98		(ML/SM1040)	Anion Sum	7.84	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82712	(EPA/ML 200.7)	Calcium, Total, ICAP	94	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	8.41	meq/l	0.0010	1
	07/24/98	81256	(ML/EPA 300)	Chloride	48	mg/l	2.0	2
	07/24/98	81084	(MOD/EPA 300)	Perchlorate	5.9	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.401	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/22/98	80971	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81291	(ML/S2510B)	Specific Conductance	835	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	144	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
08/07/98	08/19/98	82714	(ML/EPA 200.7)	Potassium, Total, ICAP	4.5	mg/l	1.0	1
08/07/98	08/19/98	82716	(ML/EPA 200.7)	Magnesium, Total, ICAP	31	mg/l	0.10	1
08/07/98	08/19/98	82719	(ML/EPA 200.7)	Sodium, Total, ICAP	24	mg/l	1.0	1
	07/24/98	81257	(ML/EPA 300.0)	Nitrate-N by IC	11	mg/l	0.20	2
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	7.5	Units	0.0010	1
	07/24/98	81258	(ML/EPA 300.0)	Sulfate	120	mg/l	4.0	2
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	510	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/24/98	81448	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/24/98	81448	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/24/98	81448	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/24/98	81448	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc

QC Batch #80971 — Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722071		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0515	103.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0515	103.0	(80.00 - 120.00)	0.00

QC Batch #81084 — Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722075		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.0	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	4.1
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.6	88.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.7	93.5	(75.00 - 125.00)	6.1

QC Batch #81103 — Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0724111		(0.00 - 0.00)	

QC Batch #81256 — Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Chloride	25	26	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	20	80.0	(80.00 - 120.00)	
MSD	Chloride	25	20	80.0	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #81257 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.0	80.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.0	80.0	(80.00 - 120.00)	0.00

QC Batch #81258 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Sulfate	50	51	102.0	(90.00 - 110.00)	
LCS2	Sulfate	50	51	102.0	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	41	82.0	(80.00 - 120.00)	
MSD	Sulfate	50	41	82.0	(80.00 - 120.00)	0.00

QC Batch #81291 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0722195		(0.00 - 0.00)	

QC Batch #81389 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0721192		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	664	94.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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QC Batch #81448 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.57	94.6	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	9.24	115.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	8.33	104.1	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.39	92.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	6.60	82.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	8.99	112.4	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	9.02	112.8	(70.00 - 130.00)	0.33
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.72	109.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.35	104.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.77	109.6	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Benzene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	9.20	115.0	(70.00 - 130.00)	
MSD	Benzene	8	9.20	115.0	(70.00 - 130.00)	0.00
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	7.83	97.9	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.41	105.1	(70.00 - 130.00)	1.4
LCS1	Carbon Tetrachloride	8	7.51	93.9	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.45	105.6	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	8.39	104.9	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	8.36	104.5	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.00	87.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.72	96.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.06	76.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	15.8	98.8	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	7.65	95.6	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	8.03	100.4	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.46	93.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	7.92	99.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	93	93.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	86	86.0		
MS	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	6.8
LCS1	Toluene-d8	100	97	97.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	97	97.0		
MS	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	95	95.0	(80.00 - 120.00)	1.0
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	107	107.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	6.94	86.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.35	91.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	9.50	118.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	9.09	113.6	(70.00 - 130.00)	4.4

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LCS1	Trichlorotrifluoroethane(Freon	4	4.99	124.8	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.87	110.9	(70.00 - 130.00)	
MSD	Toluene	8	8.97	112.1	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	2.99	74.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #81471 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722071		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.9	94.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.8	94.0	(90.00 - 110.00)	0.53
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.7	98.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.3	96.5	(75.00 - 125.00)	2.1

QC Batch #82083 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	92	92.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	93	93.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	97	97.0	(70.00 - 130.00)	1.0

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Foster Wheeler Environmental, Inc
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QC Batch #82086 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	471	94.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	513	102.6	(85.00 - 115.00)	8.5
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	300	60.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	303	60.6	(70.00 - 130.00)	1.00

QC Batch #82088 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	3.9
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	21.0	105.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	23.8	119.0	(70.00 - 130.00)	13

QC Batch #82288 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.019	95.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.021	105.0	(85.00 - 115.00)	10
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	8.7

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #82712 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.3	102.6	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	51.8	103.6	(90.00 - 110.00)	0.97
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	51.0	102.0	(80.00 - 120.00)	1.6

QC Batch #82714 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.5	102.5	(80.00 - 110.00)	1.5
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.7	103.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 120.00)	1.5

QC Batch #82716 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.4	102.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.7	103.5	(85.00 - 115.00)	1.5
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	1.5

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Criteria for MS and DUP are not applicable for ICR monitoring.

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #82719 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0717132		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.8	99.6	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	50.4	100.8	(80.00 - 120.00)	1.2
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.7	99.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	49.0	98.0	(80.00 - 120.00)	1.4

QC Batch #82746 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.3	102.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.5	100.3	(90.00 - 110.00)	1.8
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.5	91.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	87.9	91.4	(80.00 - 120.00)	0.46

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

September 15, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 45394 (MW-983-088, -089, -016, -017, -018, -019, -020)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.
(Fe-MS) QC batch 82086: The MS/MSD for the Iron analysis on 8/4/98, prepared 8/3/98, recovered below the MWL and the CRRL acceptance limits. The Laboratory Control Sample and Method Blank prepared simultaneously are acceptable. The RPD for the MS/MSD is acceptable. The sample used for MS/MSD is your sample ID: MW-983-016. There is a possible low bias to the iron result for this sample, due to matrix interference with the iron analysis. There is no qualification necessary for the other samples' data reported. All other data reported is acceptable.

Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-983-016, -017, -018, -019, -020

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-016, --017, -018, -020
Perchlorate was detected in sample ID: MW-983-017, -020
Chloroform was detected in sample ID: MW-983-016, -019, -020
Tetrachloroethylene was detected in sample ID: MW-982-016, -017, -018, -019, -020
Cis-1,2-Dichloroethylene was detected in sample ID: MW-983-016, -017
Trichloroethylene was detected in sample ID: MW-983-017, 020

TICS:
An unknown compound was detected at RT=8.01 in sample ID: MW-983-089

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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PHONE: 818-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45394
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/23/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Matrix / Tests Scheduled					Sample Date
980723149	MW-983-088	Water					07/23/98
	@EBASVOA						
980723150	MW-983-089	Water					07/23/98
	@EBASVOA	AS-GF	CR-MS	PB-MS	CR-VI	CLO4	
980723151	MW-983-016	Water					07/23/98
	@EBASVOA	AS-GF	CR-MS	PB-MS	TDS		
	CATION1	ANION1	PH	EC	HCO3	CO3	
	ALK	NO3	SO4	CL	FE-MS	K	
	NA	MG	CA	CR-VI	CLO4		
980723152	MW-983-017	Water					07/23/98
	@EBASVOA	CLO4	CR-VI	CA	MG		
	NA	K	FE-MS	CL	SO4	NO3	
	ALK	CO3	HCO3	EC	PH	ANION	
	CATION1	TDS	PB-MS	CR-MS	AS-GF		
980723153	MW-983-018	Water					07/23/98
	@EBASVOA	CLO4	CR-VI	CA	MG		
	NA	K	FE-MS	CL	SO4	NO3	
	ALK	CO3	HCO3	EC	PH	ANION	
	CATION1	TDS	PB-MS	CR-MS	AS-GF		
980723154	MW-983-019	Water					07/23/98
	@EBASVOA	CLO4	CR-VI	CA	MG		
	NA	K	FE-MS	CL	SO4	NO3	
	ALK	CO3	HCO3	EC	PH	ANION	
	CATION1	TDS	PB-MS	CR-MS	AS-GF		
980723155	MW-983-020	Water					07/23/98
	@EBASVOA	CLO4	CR-VI	CA	MG		
	NA	K	FE-MS	CL	SO4	NO3	
	ALK	CO3	HCO3	EC	PH	ANION	
	CATION1	TDS	PB-MS	CR-MS	AS-GF		

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45394
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2664

45394

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

[redacted]

PROJECT: JPL

OFS NO: 1572 0250

PROJECT ADDRESS: 4800 OAK GROVE DR, PASADENA CA

SAMPLER (Name): J BRENNER

SAMPLER (Signature): J. B[illegible]

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ____ DAYS RUSH ☐ ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL Al, Cr, Pb CATIONS (6010/7000)	MAJOR ANIONS + TDS	HEX Cr	PERCHLORATE (ClO4)	MS FOR VOCs	MSD FOR VOCs	MS/MSD METALS	QC FOR Cr6+	
MW-983-088	0910	7/23/99	2	2x40ml	X		9180723149	✓									
MW-983-089	0815	↓	5	2x40ml 1x250ml 2x125ml	X		150	X	X		X	X					
MW-983-016	0955		6	2x40ml 2x500ml 2x125ml	X		151	X	X	X	X	X			X	X	151
MW-983-016MS	0955		2	2x40ml	X								X				
MW-983-016MSD	0955		2	2x40ml	X									X			
MW-983-017	1045		6	2x40ml 1x250ml 2x125ml 1x500ml	X		152	X	X	X	X	X					
MW-983-018	1130		6		X		153	X	X	X	X	X					
MW-983-019	1215		6		X		154	X	X	X	X	X					
MW-983-020	1300	↓	6	↓	X		155	X	X	X	X	X					

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]					
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSR CIN Date Received: 7-23-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 7-23-98

by (print) MIKE CHEUNG (sign) Mike Cheung

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2 on opening at cooler
   If Yes, enter the following: seal date: 7-23-98, seal name: S.B

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No) → hand

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: MC (date) 7-23-98

B. LOG-IN PHASE: Date samples were logged-in: 7-23-98 by:
   (print) Mike Cheung (sign) Mike Cheung

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? (Yes) No

Report Summary of positive results, PR45394

			Result	MDL	UNITS
Analyzed	980723149	MW-983-088			
Analyzed	980723150	MW-983-089			
Analyzed	980723151	MW-983-016			
07/28/98	Chloroform (Trichloromethane)		0.6	.500	UGL
07/28/98	Tetrachloroethylene (PCE)		7.6	.500	UGL
07/28/98	cis-1,2-Dichloroethylene		1.5	.500	UGL
07/27/98	Alkalinity		200	2.000	MGL
08/04/98	Anion Sum		8.09	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		244	.001	MGL
08/19/98	Calcium, Total, ICAP		87	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		1.00	.001	MGL
08/23/98	Cation Sum		8.68	.001	MEQL
07/23/98	Chloride		67	2.000	MGL
08/04/98	Iron, Total, ICAP/MS		1200	******	UGL
07/25/98	Lab pH		7.8	.001	UNIT
08/19/98	Magnesium, Total, ICAP		33	.100	MGL
07/23/98	Nitrate-N by IC		9.7	.200	MGL
08/19/98	Potassium, Total, ICAP		3.6	1.000	MGL
08/19/98	Sodium, Total, ICAP		35	1.000	MGL
07/28/98	Specific Conductance		870	4.000	UMHO
07/23/98	Sulfate		82	4.000	MGL
07/27/98	Total Dissolved Solid (TDS)		580	10.000	MGL
Analyzed	980723152	MW-983-017			
07/28/98	Tetrachloroethylene (PCE)		4.3	.500	UGL
07/28/98	Trichloroethylene (TCE)		0.8	.500	UGL
07/28/98	cis-1,2-Dichloroethylene		0.8	.500	UGL
07/27/98	Alkalinity		210	2.000	MGL
08/04/98	Anion Sum		9.74	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		256	.001	MGL
08/19/98	Calcium, Total, ICAP		120	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		0.264	.001	MGL
08/23/98	Cation Sum		10.6	.001	MEQL
07/23/98	Chloride		87	2.000	MGL
08/04/98	Iron, Total, ICAP/MS		100	******	UGL
07/25/98	Lab pH		7.2	.001	UNIT
08/19/98	Magnesium, Total, ICAP		37	.100	MGL
07/23/98	Nitrate-N by IC		11	.200	MGL
07/29/98	Perchlorate		4.3	4.000	UGL
08/19/98	Potassium, Total, ICAP		3.8	1.000	MGL
08/19/98	Sodium, Total, ICAP		34	1.000	MGL
07/28/98	Specific Conductance		1030	4.000	UMHO
07/23/98	Sulfate		96	4.000	MGL
07/30/98	Total Dissolved Solid (TDS)		590	10.000	MGL
Analyzed	980723153	MW-983-018			
07/28/98	Tetrachloroethylene (PCE)		0.9	.500	UGL
07/27/98	Alkalinity		255	2.000	MGL
08/04/98	Anion Sum		10.3	.001	MEQL

07/27/98	Bicarbonate as HCO3,calculated	311	.001	MGL
08/19/98	Calcium, Total, ICAP	120	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	0.508	.001	MGL
08/23/98	Cation Sum	11.1	.001	MEQL
07/23/98	Chloride	100	2.000	MGL
08/04/98	Iron, Total, ICAP/MS	410	******	UGL
07/25/98	Lab pH	7.4	.001	UNIT
08/19/98	Magnesium, Total, ICAP	38	.100	MGL
07/23/98	Nitrate-N by IC	9.0	.200	MGL
08/19/98	Potassium, Total, ICAP	4.2	1.000	MGL
08/19/98	Sodium, Total, ICAP	43	1.000	MGL
07/28/98	Specific Conductance	1100	4.000	UMHO
07/23/98	Sulfate	95	4.000	MGL
07/30/98	Total Dissolved Solid (TDS)	630	10.000	MGL
Analyzed	980723154 MW-983-019			
07/28/98	Chloroform (Trichloromethane)	0.7	.500	UGL
07/28/98	Tetrachloroethylene (PCE)	0.7	.500	UGL
07/27/98	Alkalinity	220	2.000	MGL
08/04/98	Anion Sum	11.8	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated	268	.001	MGL
08/19/98	Calcium, Total, ICAP	130	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	0.138	.001	MGL
08/25/98	Cation Sum	12.3	.001	MEQL
07/23/98	Chloride	120	3.000	MGL
08/04/98	Iron, Total, ICAP/MS	910	******	UGL
07/25/98	Lab pH	6.9	.001	UNIT
08/19/98	Magnesium, Total, ICAP	44	.100	MGL
07/23/98	Nitrate-N by IC	11	.300	MGL
08/19/98	Potassium, Total, ICAP	4.2	1.000	MGL
08/19/98	Sodium, Total, ICAP	48	1.000	MGL
07/28/98	Specific Conductance	1230	4.000	UMHO
07/23/98	Sulfate	160	6.000	MGL
07/30/98	Total Dissolved Solid (TDS)	740	10.000	MGL
Analyzed	980723155 MW-983-020			
07/28/98	Chloroform (Trichloromethane)	1.8	.500	UGL
07/28/98	Tetrachloroethylene (PCE)	0.6	.500	UGL
07/28/98	Trichloroethylene (TCE)	16	.500	UGL
07/27/98	Alkalinity	165	2.000	MGL
08/04/98	Anion Sum	8.42	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated	201	.001	MGL
08/19/98	Calcium, Total, ICAP	98	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	0.052	.001	MGL
08/23/98	Cation Sum	9.00	.001	MEQL
07/23/98	Chloride	66	2.000	MGL
08/04/98	Iron, Total, ICAP/MS	105	******	UGL
07/25/98	Lab pH	6.6	.001	UNIT
08/19/98	Magnesium, Total, ICAP	32	.100	MGL
07/23/98	Nitrate-N by IC	15	.200	MGL
08/04/98	Perchlorate	13	4.000	UGL
08/19/98	Potassium, Total, ICAP	3.0	1.000	MGL
08/19/98	Sodium, Total, ICAP	32	1.000	MGL
07/28/98	Specific Conductance	890	4.000	UMHO
07/23/98	Sulfate	110	4.000	MGL
07/30/98	Total Dissolved Solid (TDS)	530	10.000	MGL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report

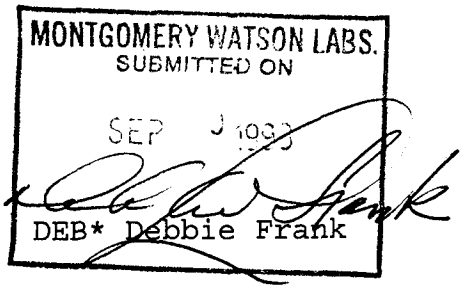
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560



Report#: 45394
JPL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#45394

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
23-jul-1998 15:16:50

MW-983-088 (980723149) Sampled on 07/23/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/28/98	81449	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
07/28/98	81449	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
07/28/98	81449	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
07/28/98	81449	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
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1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#45394

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Laboratory
Report
#45394

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-089 (980723150) Sampled on 07/23/98								
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/23/98	81038	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT=8.01	1.1	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	104	% Rec		
MW-983-016 (980723151) Sampled on 07/23/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	200	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	8.09	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	87	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	8.68	meq/l	0.0010	1
	07/23/98	81396	(ML/EPA 300)	Chloride	67	mg/l	2.0	2
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.00	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/23/98	81038	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	870	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1200	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	244	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	3.6	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	33	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	35	mg/l	1.0	1
	07/23/98	81398	(ML/EPA 300.0)	Nitrate-N by IC	9.7	mg/l	0.20	2
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	07/23/98	81399	(ML/EPA 300.0)	Sulfate	82	mg/l	4.0	2
	07/27/98	81389	(ML/S2540C)	Total Dissolved Solid (TDS)	580	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	1.5	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	7.6	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		
MW-983-017 (980723152)			**Sampled on 07/23/98**					
	07/27/98	82746	(ML/S2320B)	Alkalinity	210	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	9.74	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	120	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	10.6	meq/l	0.0010	1
	07/23/98	81396	(ML/EPA 300)	Chloride	87	mg/l	2.0	2
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	4.3	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.264	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/23/98	81038	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	1030	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	100	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	256	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	3.8	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	37	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	34	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/23/98	81398	(ML/EPA 300.0)	Nitrate-N by IC	11	mg/l	0.20	2
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	7.2	Units	0.0010	1
	07/23/98	81399	(ML/EPA 300.0)	Sulfate	96	mg/l	4.0	2
	07/30/98	81683	(ML/S2540C)	Total Dissolved Solid (TDS)	590	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	0.8	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	4.3	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.8	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-018 (980723153) Sampled on 07/23/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	255	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	10.3	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	120	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	11.1	meq/l	0.0010	1
	07/23/98	81396	(ML/EPA 300)	Chloride	100	mg/l	2.0	2
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.508	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/23/98	81038	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	1100	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	410	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	311	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	4.2	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	38	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	43	mg/l	1.0	1
	07/23/98	81398	(ML/EPA 300.0)	Nitrate-N by IC	9.0	mg/l	0.20	2
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	7.4	Units	0.0010	1
	07/23/98	81399	(ML/EPA 300.0)	Sulfate	95	mg/l	4.0	2
	07/30/98	81683	(ML/S2540C)	Total Dissolved Solid (TDS)	630	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.9	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		
MW-983-019 (980723154)			**Sampled on 07/23/98**					
	07/27/98	82746	(ML/S2320B)	Alkalinity	220	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	11.8	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/20/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	130	mg/l	1.0	1
	08/25/98		(ML/SM1040)	Cation Sum	12.3	meq/l	0.0010	1
	07/23/98	81396	(ML/EPA 300)	Chloride	120	mg/l	3.0	3
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.138	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/23/98	81038	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	1230	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	910	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	268	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	4.2	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	44	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	48	mg/l	1.0	1
	07/23/98	81398	(ML/EPA 300.0)	Nitrate-N by IC	11	mg/l	0.30	3

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	6.9	Units	0.0010	1
	07/23/98	81399	(ML/EPA 300.0)	Sulfate	160	mg/l	6.0	3
	07/30/98	81683	(ML/S2540C)	Total Dissolved Solid (TDS)	740	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.7	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-020 (980723155) Sampled on 07/23/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	8.42	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	98	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	9.00	meq/l	0.0010	1
	07/23/98	81396	(ML/EPA 300)	Chloride	66	mg/l	2.0	2
	08/04/98	81896	(MOD/EPA 300)	Perchlorate	13	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.052	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/23/98	81038	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	890	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	105	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	3.0	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	32	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	32	mg/l	1.0	1
	07/23/98	81398	(ML/EPA 300.0)	Nitrate-N by IC	15	mg/l	0.20	2
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	6.6	Units	0.0010	1
	07/23/98	81399	(ML/EPA 300.0)	Sulfate	110	mg/l	4.0	2
	07/30/98	81683	(ML/S2540C)	Total Dissolved Solid (TDS)	530	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	16	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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QC Batch #81038 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0505	101.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0505	101.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0505	101.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0499	99.8	(80.00 - 120.00)	1.2

QC Batch #81103 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0724111		(0.00 - 0.00)	

QC Batch #81292 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0724109		(0.00 - 0.00)	

QC Batch #81389 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0721192		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	664	94.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #81396 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Chloride	25	26	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

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MS	Chloride	25	20	80.0	(80.00 - 120.00)	
MSD	Chloride	25	20	80.0	(80.00 - 120.00)	0.00

QC Batch #81398 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.0	80.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.0	80.0	(80.00 - 120.00)	0.00

QC Batch #81399 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Sulfate	50	51	102.0	(90.00 - 110.00)	
LCS2	Sulfate	50	51	102.0	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	41	82.0	(80.00 - 120.00)	
MSD	Sulfate	50	41	82.0	(80.00 - 120.00)	0.00

QC Batch #81449 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.68	108.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.78	109.7	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	8.49	106.1	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	8.27	103.4	(70.00 - 130.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

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MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	8.86	110.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	8.99	112.4	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	9.02	112.8	(70.00 - 130.00)	0.33
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.55	106.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.87	110.9	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.36	104.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.81	110.1	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	9.57	119.6	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Benzene	8	9.13	114.1	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	9.20	115.0	(70.00 - 130.00)	
MSD	Benzene	8	9.20	115.0	(70.00 - 130.00)	0.00
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	9.56	119.5	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.79	109.9	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

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Laboratory
QC Report
#45394

Foster Wheeler Environmental, Inc
(continued)

MS	Chlorobenzene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.41	105.1	(70.00 - 130.00)	1.4
LCS1	Carbon Tetrachloride	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.19	102.4	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	8.36	104.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	8.31	103.9	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.61	95.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.80	110.0	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.63	90.8	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	17.9	111.9	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.74	109.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	8.56	107.0	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	9.09	113.6	(70.00 - 130.00)	

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Laboratory
QC Report
#45394

Foster Wheeler Environmental, Inc
(continued)

MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	9.23	115.4	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	92	92.0		
MS	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	6.8
LCS1	Toluene-d8	100	100	100.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	95	95.0	(80.00 - 120.00)	1.0
LCS1	4-Bromofluorobenzene	100	104	104.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	114	114.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	8.65	108.1	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.71	108.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	9.50	118.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	9.09	113.6	(70.00 - 130.00)	4.4
LCS1	Trichlorotrifluoroethane(Freon	4	4.31	107.7	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	9.15	114.4	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.87	110.9	(70.00 - 130.00)	
MSD	Toluene	8	8.97	112.1	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	3.67	91.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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Criteria for MS and DUP are not applicable for ICR monitoring.

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Laboratory
QC Report
#45394

Foster Wheeler Environmental, Inc
(continued)

QC Batch #81471 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722071		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.9	94.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.8	94.0	(90.00 - 110.00)	0.53
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.7	98.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.3	96.5	(75.00 - 125.00)	2.1

QC Batch #81683 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0723152		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #81896 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723155		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.5	97.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	1.6
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.3	86.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	16.9	84.5	(75.00 - 125.00)	2.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

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Laboratory
QC Report
#45394

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82083 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	92	92.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	93	93.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	97	97.0	(70.00 - 130.00)	1.0

QC Batch #82086 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	471	94.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	513	102.6	(85.00 - 115.00)	8.5
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	300	60.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	303	60.6	(70.00 - 130.00)	1.00

QC Batch #82088 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	3.9
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	21.0	105.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	23.8	119.0	(70.00 - 130.00)	13

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

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Laboratory
QC Report
#45394

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82288 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.019	95.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.021	105.0	(85.00 - 115.00)	10
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.024	120.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.022	110.0	(85.00 - 115.00)	8.7

QC Batch #82713 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.2	102.4	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	50.7	101.4	(90.00 - 110.00)	0.98
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	51.2	102.4	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	50.7	101.4	(80.00 - 120.00)	0.98

QC Batch #82715 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.5	102.5	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	21.1	105.5	(80.00 - 120.00)	0.47

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

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Laboratory
QC Report
#45394

Foster Wheeler Environmental, Inc
(continued)

QC Batch #82717 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.4	102.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.3	101.5	(85.00 - 115.00)	0.49
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.3	101.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #82720 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0723151		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.2	100.4	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	50.1	100.2	(80.00 - 120.00)	0.20
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	50.6	101.2	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	50.4	100.8	(80.00 - 120.00)	0.40

QC Batch #82746 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0722074		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.3	102.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.5	100.3	(90.00 - 110.00)	1.8
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.5	91.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	87.9	91.4	(80.00 - 120.00)	0.46

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

September 15, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 45434 (MW-983-090, -091, -043, -044, -045, -046, -047)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.
(Fe-MS) QC batch 82086: The MS/MSD for the Iron analysis on 8/4/98, prepared 8/3/98, recovered below the MWL and the CRRL acceptance limits. The Laboratory Control Sample and Method Blank prepared simultaneously are acceptable. The RPD for the MS/MSD is acceptable. The sample used for MS/MSD was not a part of this report group. There is no qualification necessary for the data reported. All data reported is acceptable.

Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-983-045, -046, -047

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7. All ion balances meet QC criteria.
Perchlorate was detected in sample ID: MW-983-045, -046, -047
1,1-Dichloroethane was detected in sample ID: MW-983-046, -047
Chloroform was detected in sample ID: MW-983-046, -047
Tetrachloroethylene was detected in sample ID: MW-982-046, -047
Trichloroethylene was detected in sample ID: MW-983-046

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 818-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45434
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/24/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
980724105	MW-983-090	@EBASVOA	Water	07/24/98
980724106	MW-983-091	@EBASVOA CR-MS PB-MS AS-GF CR-VI CLO4	Water	07/24/98
980724107	MW-983-043	@EBASVOA CR-MS PB-MS AS-GF TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CR-VI CLO4	Water	07/24/98
980724108	MW-983-044	@EBASVOA CLO4 CR-VI CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION CATION1 TDS AS-GF PB-MS CR-MS	Water	07/24/98
980724109	MW-983-045	@EBASVOA CLO4 CR-VI CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION CATION1 TDS AS-GF PB-MS CR-MS	Water	07/24/98
980724110	MW-983-046	@EBASVOA CLO4 CR-VI CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION CATION1 TDS AS-GF PB-MS CR-MS	Water	07/24/98
980724111	MW-983-047	@EBASVOA CLO4 CR-VI CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION CATION1 TDS AS-GF PB-MS CR-MS	Water	07/24/98

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45434
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2690

45434

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL
OFS NO: 1572 0251
PROJECT ADDRESS: 4800 Oak Grove Blvd. Pasadena, CA.
SAMPLER (Name): Thomas Blaney
SAMPLER (Signature): TB Pry
LABORATORY: Montgomery Laboratories
REPORTS TO BE SENT TO: Mark Cutler

HAZARD IDENTIFICATION: Non Hazard [X] Reactive [ ] Flammable [ ] Toxic [ ] Skin Irritant [ ] Infectious [ ]

TIME REQUIRED: NORMAL [X] ____ DAYS RUSH [ ] ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (524.2)	Total Cr, Pb, As (6010/7000)	Anions + TDS	Cr+6	Perchlorate	MS Full VOCs	MSD for VOCs	MS/MSD for metals	QC for Cr+6
MW-983-090	0810	7/24/98	2	40ml	X	980724105		X								
MW-983-091	0815		5	2x40, 1x250, 2x125	X		106	X	X		X	X				
MW-983-043	0900		6	2x40, 1x500, 2x125	X		107	X	X	X	X	X			X	X
MW-983-043 MS	0900		2	40ml	X								X			
MW-983-043 MSD	0900		2	40ml	X									X		
MW-983-044	1000		6	2x40, 1x250, 1x500, 2x125	X		108	X	X	X	X	X				
MW-983-045	1100		6	2x40, 1x250, 1x500, 2x125	X		109	X	X	X	X	X				
MW-983-046	1155		6	2x40, 1x250, 2x125, 1x500	X		110	X	X	X	X	X				
MW-983-047	1420		6	2x40, 1x250, 1x500, 2x125	X		111	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC.

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 7-24-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 7-24-98

by (print) Mike Ehlmann (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 4 outside of opening of cooler
   If Yes, enter the following: seal date: 7-24-98, seal name: J.B

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No) → hand-

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: Yes (date) 7-24-98

B. LOG-IN PHASE: Date samples were logged-in: 7/24-98 by:
   (print) MARTIN L. DE MESA (sign) [signature]

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? (Yes) No

Report Summary of positive results, PR45434

			Result	MDL	UNITS
Analyzed	980724105	MW-983-090			
Analyzed	980724106	MW-983-091			
Analyzed	980724107	MW-983-043			
07/27/98	Alkalinity		140	2.000	MGL
08/04/98	Anion Sum		3.42	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		169	.001	MGL
08/19/98	Calcium, Total, ICAP		19	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		3.47	.001	MGL
08/23/98	Cation Sum		3.62	.001	MEQL
07/24/98	Chloride		9.0	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		180	******	UGL
07/25/98	Lab pH		8.5	.001	UNIT
08/19/98	Magnesium, Total, ICAP		12	.100	MGL
07/24/98	Nitrate-N by IC		0.1	.100	MGL
08/19/98	Potassium, Total, ICAP		2.7	1.000	MGL
08/19/98	Sodium, Total, ICAP		37	1.000	MGL
07/28/98	Specific Conductance		360	4.000	UMHO
07/24/98	Sulfate		17	2.000	MGL
07/30/98	Total Dissolved Solid (TDS)		200	10.000	MGL
Analyzed	980724108	MW-983-044			
07/27/98	Alkalinity		145	2.000	MGL
08/04/98	Anion Sum		4.92	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		176	.001	MGL
08/19/98	Calcium, Total, ICAP		46	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		1.81	.001	MGL
08/23/98	Cation Sum		5.19	.001	MEQL
07/24/98	Chloride		32	1.000	MGL
08/04/98	Iron, Total, ICAP/MS		285	******	UGL
07/25/98	Lab pH		8.2	.001	UNIT
08/19/98	Magnesium, Total, ICAP		19	.100	MGL
07/24/98	Nitrate-N by IC		9.8	.100	MGL
08/19/98	Potassium, Total, ICAP		2.7	1.000	MGL
08/19/98	Sodium, Total, ICAP		29	1.000	MGL
07/28/98	Specific Conductance		530	4.000	UMHO
07/24/98	Sulfate		20	2.000	MGL
07/30/98	Total Dissolved Solid (TDS)		290	10.000	MGL
Analyzed	980724109	MW-983-045			
07/27/98	Alkalinity		135	2.000	MGL
08/04/98	Anion Sum		7.80	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated		164	.001	MGL
08/19/98	Calcium, Total, ICAP		57	1.000	MGL
07/27/98	Carbonate as CO3, Calculated		1.69	.001	MGL
08/23/98	Cation Sum		7.99	.001	MEQL
07/24/98	Chloride		91	2.000	MGL
07/25/98	Lab pH		8.2	.001	UNIT
08/19/98	Magnesium, Total, ICAP		40	.100	MGL
07/24/98	Nitrate-N by IC		6.3	.200	MGL

07/29/98	Perchlorate	5.9	4.000	UGL
08/19/98	Potassium, Total, ICAP	4.3	1.000	MGL
08/19/98	Sodium, Total, ICAP	40	1.000	MGL
07/28/98	Specific Conductance	825	4.000	UMHO
07/24/98	Sulfate	100	4.000	MGL
07/30/98	Total Dissolved Solid (TDS)	460	10.000	MGL
Analyzed	980724110 MW-983-046			
07/28/98	1,1-Dichloroethane	0.8	.500	UGL
07/28/98	Chloroform (Trichloromethane)	0.6	.500	UGL
07/28/98	Tetrachloroethylene (PCE)	1.8	.500	UGL
07/28/98	Trichloroethylene (TCE)	0.9	.500	UGL
07/27/98	Alkalinity	250	2.000	MGL
08/04/98	Anion Sum	13.6	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated	305	.001	MGL
08/19/98	Calcium, Total, ICAP	150	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	0.198	.001	MGL
08/23/98	Cation Sum	13.6	.001	MEQL
07/25/98	Chloride	120	3.000	MGL
08/04/98	Iron, Total, ICAP/MS	800	******	UGL
07/25/98	Lab pH	7.0	.001	UNIT
08/19/98	Magnesium, Total, ICAP	54	.100	MGL
07/25/98	Nitrate-N by IC	17	.300	MGL
07/29/98	Perchlorate	4.9	4.000	UGL
08/19/98	Potassium, Total, ICAP	4.0	1.000	MGL
08/19/98	Sodium, Total, ICAP	35	1.000	MGL
07/28/98	Specific Conductance	1350	4.000	UMHO
07/25/98	Sulfate	190	6.000	MGL
07/30/98	Total Dissolved Solid (TDS)	830	10.000	MGL
Analyzed	980724111 MW-983-047			
07/28/98	1,1-Dichloroethane	1.7	.500	UGL
07/28/98	Chloroform (Trichloromethane)	0.6	.500	UGL
07/28/98	Tetrachloroethylene (PCE)	0.8	.500	UGL
07/27/98	Alkalinity	210	2.000	MGL
08/04/98	Anion Sum	13.5	.001	MEQL
07/27/98	Bicarbonate as HCO3,calculated	256	.001	MGL
08/19/98	Calcium, Total, ICAP	150	1.000	MGL
07/27/98	Carbonate as CO3, Calculated	0.132	.001	MGL
08/23/98	Cation Sum	13.7	.001	MEQL
07/25/98	Chloride	130	3.000	MGL
08/04/98	Iron, Total, ICAP/MS	1500	******	UGL
07/25/98	Lab pH	6.9	.001	UNIT
08/19/98	Magnesium, Total, ICAP	50	.100	MGL
07/25/98	Nitrate-N by IC	20	.300	MGL
07/29/98	Perchlorate	4.4	4.000	UGL
08/19/98	Potassium, Total, ICAP	4.2	1.000	MGL
08/19/98	Sodium, Total, ICAP	45	1.000	MGL
07/28/98	Specific Conductance	1350	4.000	UMHO
07/25/98	Sulfate	200	6.000	MGL
07/30/98	Total Dissolved Solid (TDS)	820	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

Report#: 45434
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report #45434

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
24-jul-1998 15:17:26

MW-983-090 (980724105) Sampled on 07/24/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/28/98	81449		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
07/28/98	81449		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
07/28/98	81449		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
07/28/98	81449		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#45434

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	108	% Rec		

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Laboratory
Report
#45434

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-091 (980724106) Sampled on 07/24/98								
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/24/98	81089	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
Report
#45434

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		

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Laboratory
Report
#45434

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	105	% Rec		
MW-983-043 (980724107) Sampled on 07/24/98								
	07/27/98	82746	(ML/S2320B)	Alkalinity	140	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	3.42	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	19	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.62	meq/l	0.0010	1
	07/24/98	81373	(ML/EPA 300)	Chloride	9.0	mg/l	1.0	1
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	3.47	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/24/98	81089	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	360	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	180	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	169	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	2.7	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	12	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	37	mg/l	1.0	1
	07/24/98	81375	(ML/EPA 300.0)	Nitrate-N by IC	0.1	mg/l	0.10	1
08/03/98	08/04/98	82088	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/25/98	81103	(ML/SM 4500H)	Lab pH	8.5	Units	0.0010	1
	07/24/98	81376	(ML/EPA 300.0)	Sulfate	17	mg/l	2.0	1
	07/30/98	81683	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/28/98	81449	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/28/98	81449	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/28/98	81449	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/28/98	81449	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		
MW-983-044 (980724108)			**Sampled on**	**07/24/98**				
	07/27/98	82746	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	08/04/98		(ML/SM1040)	Anion Sum	4.92	meq/l	0.0010	1
08/03/98	08/10/98	82288	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/07/98	08/19/98	82713	(EPA/ML 200.7)	Calcium, Total, ICAP	46	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	5.19	meq/l	0.0010	1
	07/24/98	81373	(ML/EPA 300)	Chloride	32	mg/l	1.0	1
	07/29/98	81471	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	07/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.81	mg/l	0.0010	1
08/03/98	08/04/98	82083	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/24/98	81089	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	07/28/98	81292	(ML/S2510B)	Specific Conductance	530	umho/cm	4.0	1
08/03/98	08/04/98	82086	(EPA/ML 200.8)	Iron, Total, ICAP/MS	285	ug/l	100	1
	07/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
08/07/98	08/19/98	82715	(ML/EPA 200.7)	Potassium, Total, ICAP	2.7	mg/l	1.0	1
08/07/98	08/19/98	82717	(ML/EPA 200.7)	Magnesium, Total, ICAP	19	mg/l	0.10	1
08/07/98	08/19/98	82720	(ML/EPA 200.7)	Sodium, Total, ICAP	29	mg/l	1.0	1