Previous

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-17 Depth: 726 ft. Date: 3-13-00

Well Name: MW-17 Sampling Zone No.: 5 Starting Time: 0910 Finishing Time: 1130

Technicians M. Hunt, V. Richards, J. Donnay

Water Level Inside MP Casing (Beginning of Session) 171.67 psi (End of Session) 171.~~62~~ psi 59 (in 2 ft)

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	✓	✓	✓	✓	✓	✓	171.67	✓	0925	0929	✓	171.65	1	1st run; initial parameters; NTU's = 10.97
2	✓	✓	✓	✓	✓	✓	171.64	✓	1009	1012	✓	171.65	1	2nd run; parameters
3	✓	✓	✓	✓	✓	✓	171.64	✓	1044	1047	✓	171.62	1	3rd run; parameters
4	✓	✓	✓	✓	✓	✓	171.61	✓	1116	1119	✓	171.59	1	4th run; Collect MW-001-033; VOC's, ClO_4^-; final parameters
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing: 195.86 psi

Total Volume: 4

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 330 ft. Date: 3-20-00

Well Name: MW-18 Sampling Zone No.: 2 Starting Time: 1325 Finishing Time: 1435

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 13.96 psi (End of Session) 14.02 psi

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	✓	✓	✓	✓	✓	✓	13.96	✓	1334	1337	✓	14.07	0.75	1st run; initial parameters; NTU's = 1.04
2	✓	✓	✓	✓	✓	✓	14.01	✓	1355	1358	✓	14.04	1	2nd run; Collect MW-001-032; VOC's, Cr_{Tot}
3	✓	✓	✓	✓	✓	✓	13.98	✓	1420	1424	✓	14.02	1	3rd run; Cr^{6+}, ClO_4^-; final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 46.15 psi

Total Volume: 2.75

P. Davol (from Tech Law for the EPA) took samples MW-001-032 + MW-001-095 (1405 + 1410)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 424 ft. Date: 3-20-00

Well Name: MW-18 Sampling Zone No.: 3 Starting Time: 1210 Finishing Time: 1320

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 35.47 psi (End of Session) 35.89 psi

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	✓	✓	✓	✓	✓	✓	35.47	✓	1222	1224	✓	35.53	0.75	1st run; initial parameters; NTU's = 0.30
2	✓	✓	✓	✓	✓	✓	35.92	✓	1242	1245	✓	35.94	1	2nd run; Collect MW-001-031; VOC's, Cr_{Tot}
3	✓	✓	✓	✓	✓	✓	35.84	✓	1308	1310	✓	35.89	1	3rd run; Cr^{6+}, ClO_4^-; final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 87.63 psi

Total Volume: 2.75 F2

P. Daval (from Tech Law for the EPA) took samples MW-001-031 + MW-001-096 (1255+1300)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 564 ft. Date: 3-20-00

Well Name: MW-18 Sampling Zone No.: 4 Starting Time: 1040 Finishing Time: 1205

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 96.35 psi (End of Session) 96.74 psi

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	✓	✓	✓	✓	✓	✓	96.35	✓	1048	1050	✓	96.35	0.75	1st run; initial parameters; NTU's = 0.59
2	✓	✓	✓	✓	✓	✓	96.79	✓	1113	1115	✓	96.82	1	2nd run; Collect MW-001-030; VOCs, Cr_{Tot}, Cr^{6+}-030MS; -030MSD (MS/MSD)
3	✓	✓	✓	✓	✓	✓	96.73	✓	1146	1149	✓	96.74	1	3rd run; Cr^{6+}, ClO_4^-; final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 134.87 psi

Total Volume: 2.75

P. Davol (from Tech Law for the EPA) took samples MW-001-030 + MW-001-098 (1130 + 1135)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 684 ft. Date: 3-20-00

Well Name: MW-18 Sampling Zone No.: 5 Starting Time: 0930 Finishing Time: ~~1030~~ 1035

Technicians: M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 148.52 psi (End of Session) 148.94 psi

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	✓	✓	✓	✓	✓	✓	148.52	✓	0942	0944	✓	148.49	0.75	1st run; initial parameters; NTU's = 2.03
2	✓	✓	✓	✓	✓	✓	148.96	✓	1012	1015	✓	148.94	1	2nd run; Collect MW-001-029; VOCs, ClO_4^-; Final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 178.74 psi

Total Volume: 1.75

P. David (from Tech Law for the EPA) took samples MW-001-029 + MW-001-099 (1030 + 1035)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 242 ft. Date: 3-21-00

Well Name: MW-19 Sampling Zone No.: 1 Starting Time: 1205 Finishing Time: 1245

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 14.09 psi (End of Session) 14.08 psi

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	✓	✓	✓	✓	✓	~~14.09~~	14.09	✓	1213	1216	✓	14.09	0.75	1st run; initial parameters; NTU's = 2.07
2	✓	✓	✓	✓	✓	✓	14.08	✓	1232	1235	✓	14.08	1	2nd run; Collect MW-001-028; VOC's, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 46.06 psi

Total Volume: 1.75

P. David + H. Mueller (from Tech Law for the EPA) took sample MW-001-028 (1245)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 314 ft. Date: 3-21-00

Well Name: MW-19 Sampling Zone No.: 2 Starting Time: 1120 Finishing Time: 1200

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 14.12 psi (End of Session) 14.16 psi

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	✓	✓	✓	✓	✓	✓	14.12	✓	1128	1129	✓	14.16	0.75	1st run; initial parameters; NTU's = 1.43
2	✓	✓	✓	✓	✓	✓	14.13	✓	1149	1151	✓	14.16	1	2nd run; Collect MW-001-027; VOCs, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing ≈ 71.05 psi

Total Volume: 1.75

F-2

P. David H. Mueller (from Tech Law for the EPA) took sample MW-001-027 (1200)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 392 ft. Date: 3-21-00

Well Name: MW-19 Sampling Zone No.: 3 Starting Time: 1030 Finishing Time: 1110

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 32.59 psi (End of Session) 33.04

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	✓	✓	✓	✓	✓	✓	32.59	✓	1039	1041	✓	32.60	0.75	1st run; initial parameters; NTU's = 2.86
2	✓	✓	✓	✓	✓	✓	33.03	✓	1059	1102	✓	33.04	1	2nd run; Collect MW-001-026; VOCs, CCl_4; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 102.62 psi

Total Volume: 1.75

P. Davel + H. Mueller (from Tech Law for the EPA) took sample MW-001-026 (1110)

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 444 ft. Date: 3-21-00

Well Name: MW-19 Sampling Zone No.: 4 Starting Time: 0910 Finishing Time: 1025

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 55.19 psi (End of Session) 55.66 psi

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	✓	✓	✓	✓	✓	✓	55.19	✓	0917	0919	✓	55.22	0.75	1st run; initial parameters; NTU's = 0.64
2	✓	✓	✓	✓	✓	✓	55.68	✓	0941	0944	✓	55.71	1	2nd run; Collect MW-001-025, -025MS, + 025MSD; VOC's, ClO_4^-
3	✓	✓	✓	✓	✓	✓	55.64	✓	1010	1013	✓	55.66	1	3rd run; final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 77.63 psi Total Volume: 2.75

P. Davol + H. Mueller (from Tech Law for the EPA) took samples MW-001-025, MW-001-025MS, + MW-001-025MS (1000)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 498 ft. Date: 3-21-00

Well Name: MW-19 Sampling Zone No.: 5 Starting Time: 0805 Finishing Time: 0900

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 78.72 psi (End of Session) 79.22 psi

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	✓	✓	✓	✓	✓	✓	78.72	✓	0817	0821	✓	78.70	0.75	1st run; initial parameters; NTUs = 0.82
2	✓	✓	✓	✓	✓	✓	79.19	✓	0846	0850	✓	79.22	1	2nd run; Collect MW-001-024; VOCs, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 99.24 psi

Total Volume: 1.75

P. Pavol + H. Mueller (from Tech Law for the EPA) took sample MW-001-024 (0900)

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 230 Date: 3/22/00

Well Name: MW-20 Sampling Zone No.: 1 Starting Time: 1415 Finishing Time: 1515

Technicians: J. Brenner, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 14.19 (PSIA) (End of Session) 14.20

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	✓	✓	✓	✓	✓	✓	14.19	✓	1430	1435	✓	14.22	1.0	INITIAL PARAMETERS; NTU'S = 4.53
2	✓	✓	✓	✓	✓	✓	14.20	✓	1442	1447	✓	14.22	1.0	COLLECT MW.001-023; 2 VOCS TOT Cr.
3	✓	✓	✓	✓	✓	✓	14.19	✓	1503	1509	✓	14.20	1.0	Cr^{6+} ClO_4; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 23.20 PSIA

Total Volume: 3.0 l

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 392 Date: 3/22/00

Well Name: MW-20 Sampling Zone No.: 2 Starting Time: 1250 Finishing Time: 1410

Technicians J. BRENNER, V. RICHARDS, M. FLORES

Water Level Inside MP Casing (Beginning of Session) 43.52 (PSIA) (End of Session) 43.51 (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	✓	✓	✓	✓	✓	✓	43.52	✓	1316	1319	✓	43.53	1.0	INITIAL PARAMETERS; NTU'S = 0.24
2	✓	✓	✓	✓	✓	✓	43.50	✓	1335	1338	✓	43.49	1.0	COLLECT MW-001-022, 2 VOAS, TOT. Cr.
3	✓	✓	✓	✓	✓	✓	43.40	✓	1351	1400	✓	43.51	1.0	Cr 6+ PERCHLORATE; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 93.87 PSIA

Total Volume: 3.0 L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 562 Date: 3/22/00

Well Name: MW-20 Sampling Zone No.: 3 Starting Time: 1125 Finishing Time: 1245

Technicians J. BRENNER, V. RICHARDS, M. FLORES

Water Level Inside MP Casing (Beginning of Session) 118.42 (PSIA) (End of Session) 118.42 (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	✓	✓	✓	✓	✓	✓	118.42	✓	1136	1138	✓	118.45	1.0	INITIAL PARAMETERS; NTU'S = 0.28
2	✓	✓	✓	✓	✓	✓	118.45	✓	1150	1156	✓	118.40	1.0	COLLECT MW-001-021; -021MS; -021MSD FOR VOCS, 2 VOCS, TOC Cr
3	✓	✓	✓	✓	✓	✓	118.40	✓	1231	1233	✓	118.42	1.0	Cr6+, PERCHLORATE; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 163.69 PSIA

Total Volume: 3.0 ℓ

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 700 Date: 3/22/00

Well Name: MW-20 Sampling Zone No.: 4 Starting Time: 1000 Finishing Time: 1120

Technicians J. BRENNER, V. RICHARDS, M. FLORES

Water Level Inside MP Casing (Beginning of Session) 178.53 (PS.A) (End of Session) 178.43 (PS.A)

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	✓	✓	✓	✓	✓	✓	178.53	✓	1000	1010	✓	178.51	1.0	INITIAL PARAMETERS; NTU'S = 1.7
2	✓	✓	✓	✓	✓	✓	178.53	✓	1033	1035	✓	178.49	1.0	COLLECT MW-001-020; 2 VOAS TOT. Cr, Cr^{6+}
3	✓	✓	✓	✓	✓	✓	178.43	✓	1105	1107	✓	178.43	1.0	PERCHLORATE, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 215.19 PSIA

Total Volume: 3.0 L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 900 Date: 3/22/2000

Well Name: MW-20 Sampling Zone No.: 5 Starting Time: 0800 Finishing Time: 0955

Technicians J. BRENNER, V. RICHARDS, M. FLORES

Water Level Inside MP Casing (Beginning of Session) 265.59 (PSIA) (End of Session) 265.54 (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	✓	✓	✓	✓	✓	✓	265.59	✓	0821	0823	✓	265.56	1.0	INITIAL PARAMETERS; NTU'S = 0.91 NTU'S
2	✓	✓	✓	✓	✓	✓	265.60	✓	0855	0857	✓	265.57	1.0	COLLECT MW-001-019; 2 VOAS, Cr6+, ~~[illegible]~~; 3 EPA VOAS, EPA TOT. Cr
3	✓	✓	✓	✓	✓	✓	265.50	✓	0934	0936	✓	265.54	1.0	TOT. Cr, PERCHLORATE FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: ~~[illegible]~~ PRESS. OUTSIDE MP CASING = 313.25 PSIA

Total Volume: 3.0 ℓ

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 90 Date: 3/10/00

Well Name: MW-21 Sampling Zone No.: 1 Starting Time: 1215 Finishing Time: 1250

Technicians M. Hunt, T Turpyn-Keasler J. Donnay

Water Level Inside MP Casing (Beginning of Session) 14.17 psi (End of Session) 14.23 psi

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	✓	✓	✓	✓	✓	~~14.17~~	14.17	✓	1227	1232	✓	14.19	0.75	1st run; initial parameters; NTU's = —
2	✓	✓	✓	✓	✓	✓	14.19	✓	1242	1248	✓	14.23	0.75	2nd run; Collect MW-001-018; VOC's, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing ~ 21.96 psi

Total Volume: 1.5

Turbidity was not measured at this screen due to instrument failure.

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 161 Date: 3/10/00

Well Name: MW-21 Sampling Zone No.: 2 Starting Time: 1135 Finishing Time: 1200

Technicians M. Hunt, T. Turpin-Keasler, J. Donnay

Water Level Inside MP Casing (Beginning of Session) 35.26 psi (End of Session) 35.28 psi

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	✓	✓	✓	✓	✓	✓	35.26	✓	1137	1140	✓	35.31	1	1st run; initial parameters; NTU's =
2	✓	✓	✓	✓	✓	✓	35.25	✓	1152	1156	✓	35.28	1	2nd run; Collect MW-001-017; VOCs, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 53.74 psi

Total Volume: 2

F-2

Turbidity was not measured at this screen due to instrument failure.

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 240 Date: 3/10/00

Well Name: MW-21 Sampling Zone No.: 3 Starting Time: 1055 Finishing Time: 1125

Technicians M. Hunt, J. Donnay, T. Turpijn-Keasler

Water Level Inside MP Casing (Beginning of Session) 69.16 psi (End of Session) 69.19 psi

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	✓	✓	✓	✓	✓	✓ ~~69.16~~	69.16	✓	1059	1101	✓	69.19	0.75	1st run; initial parameters; NTU's = —
2	✓	✓	✓	✓	✓	✓	69.14	✓	1116	1119	✓	69.19	0.75	2nd run; Collect MW-001-016; VOCs, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 87.94 psi

Total Volume: 1.5

Turbidity was not measured at this screen due to instrument failure.

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 310 Date: 3/10/00

Well Name: MW-21 Sampling Zone No.: 4 Starting Time: 1005 Finishing Time: 1043

Technicians M. Hunt, T. Turpyn-Keasler, J. Donnay

Water Level Inside MP Casing (Beginning of Session) 99.72 psi (End of Session) 99.72 psi

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	✓	✓	✓	✓	✓	✓	99.72	✓	1010	1013	✓	99.72	1	1st run; initial parameters; NTU's = —
2	✓	✓	✓	✓	✓	✓	99.69	✓	1033	1036	✓	99.72	1	2nd run; Collect MW-001-015; VOC's, ClO_4^-; Final parameters; -015 MS/MSD
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 117.80 psi

Total Volume: 2

Turbidity was not measured at this screen due to instrument failure.

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 372 Date: 3/10/00

Well Name: MW-21 Sampling Zone No.: 5 Starting Time: 0905 Finishing Time: 0950

Technicians M. Hunt, T. Turpin-Keasler, J. Donnay

Water Level Inside MP Casing (Beginning of Session) 126.23 psi (End of Session) 126.21 psi

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	✓	✓	✓	✓	✓	✓	126.23	✓	0914	0917	✓	126.21	0.75	1st run to screen 5; initial parameters; NTU's = —
2	✓	✓	✓	✓	✓	✓	126.21	✓	0937	0940	✓	126.21	0.75	2nd run; Collect MW-001-014; VOC's, CCl_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 144.71 psi

Total Volume: 1.5

Turbidity was not measured at this screen due to instrument failure.

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 245 ft. Date: 3-17-00

Well Name: MW-22 Sampling Zone No.: 1 Starting Time: 1140 Finishing Time: 1300

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 14.15 psi (End of Session) 14.18 psi

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	✓	✓	✓	✓	✓	✓	14.15	✓	1149	1153	✓	14.17	1	1st run; initial parameters; NTU's = 16.70
2	✓	✓	✓	✓	✓	✓	14.16	✓	1208	1212	✓	14.18	1	2nd run; parameters; NTU's = 15.82
3	✓	✓	✓	✓	✓	✓	14.13	✓	1228	1232	✓	14.18	1	3rd run; parameters; NTU's = 16.01
4	✓	✓	✓	✓	✓	✓	14.14	✓	1246	1250	✓	14.18	1	4th run; Collect MW-001-013; VOCs, Cr_{tot}, Cr^{6+}, ClO_4^-; final parameters
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 38.93 psi

Total Volume: 4

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 329 ft. Date: 3-17-00

Well Name: MW-22 Sampling Zone No.: 2 Starting Time: 1055 Finishing Time: 1135

Technicians: M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 35.51 psi (End of Session) 35.52 psi

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	✓	✓	✓	✓	✓	✓	35.51	✓	1102	1104	✓	35.55	1	1st run; initial parameters; NTUs = 0.53 pf-012MS; -012MSD
2	✓	✓	✓	✓	✓	✓	35.50	✓	1121	1123	✓	35.52	1	2nd run: Collect MW-001-012; VOCs, Cr_{Tot}, Cr^{6+}, ClO_4^-; Final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 75.65 psi

Total Volume: 2

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 389 ft. Date: 3-17-00

Well Name: MW-22 Sampling Zone No.: 3 Starting Time: 1005 Finishing Time: 1050

Technicians: M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 61.09 psi (End of Session) 61.09 psi

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	✓	✓	✓	✓	✓	✓	61.09	✓	1013	1015	✓	61.12	0.75	1st run; initial parameters; NTU's = 3.24
2	✓	✓	✓	✓	✓	✓	61.06	✓	1034	1036	✓	61.09	0.75	2nd run: Collect MW-001-011; VOCs, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 101.75 psi

Total Volume: 1.5

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 467 ft. Date: 3-17-00

Well Name: MW-22 Sampling Zone No.: 4 Starting Time: 0915 Finishing Time: 1000

Technicians M. Hunt, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 95.04 psi (End of Session) 95.01 psi

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	✓	✓	✓	✓	✓	✓	95.04	✓	0924	0926	✓	95.04	0.75	1st run; initial parameters; NTU's ± 1.94
2	✓	✓	✓	✓	✓	✓	95.01	✓	0946	0948	✓	95.01	0.75	2nd run; Collect MW-001-010; ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 127.36 psi

Total Volume: 1.5

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 174 ft. Date: 3-28-00

Well Name: MW-23 Sampling Zone No.: 1 Starting Time: 1110 Finishing Time: 1205

Technicians: M. Hunt, T. Turpijn-Keasler

Water Level Inside MP Casing (Beginning of Session) 14.13 psi (End of Session) 14.15 psi

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	✓	✓	✓	✓	✓	✓	14.13	✓	1114	1117	✓	14.18	0.75	1st run; initial parameters; NTU's = 12.42
2	✓	✓	✓	✓	✓	✓	14.13	✓	1133	1136	✓	14.18	1	2nd run; parameters; NTU's = 18.80
3	✓	✓	✓	✓	✓	✓	14.13	✓	1152	1156	✓	14.15	1	3rd run; Collect MW-001-009; VOCs, Cr_{Tot}, Cr^{6+}, ClO_4^-; final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 39.62 psi

Total Volume: 2.75

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 254 ft. Date: 3-28-00

Well Name: MW-23 Sampling Zone No.: 2 Starting Time: 1025 Finishing Time: 1105

Technicians M. Hunt, T. Turpijn-Keasler

Water Level Inside MP Casing (Beginning of Session) 35.39 psi (End of Session) 35.91 psi

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	✓	✓	✓	✓	✓	✓	35.39	✓	1032	1034	✓	35.41	0.75	1st run; initial parameters; NTU's = 1.13
2	✓	✓	✓	✓	✓	✓	35.91	✓	1053	1056	✓	35.91	1	2nd run; Collect MW-001-008; VOC's, Cr_{tot}, Cr^{6+}, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 72.20 psi

Total Volume: 1.75

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 319 ft. Date: 3-28-00

Well Name: MW-23 Sampling Zone No.: 3 Starting Time: 0935 Finishing Time: 1020

Technicians M. Hunt, T. Turpijn-Keasler

Water Level Inside MP Casing (Beginning of Session) 63.63 psi (End of Session) 64.15 psi

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	✓	✓	✓	✓	✓	✓	63.63	✓	0944	0946	✓	63.63	0.75	1st run; initial parameters. NTU's = 2.67 MW-007MS; -007MSD
2	✓	✓	✓	✓	✓	✓	64.16	✓	1003	1005	✓	64.15	1	2nd run; Collect MW-001-007; VOCs, Cr_{Tot}, Cr^{6+}, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 100.08 psi

Total Volume: 1.75

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 445 ft. Date: 3-28-00

Well Name: MW-23 Sampling Zone No.: 4 Starting Time: 0850 Finishing Time: 0930

Technicians M. Hunt, T. Turpijn-Keasler

Water Level Inside MP Casing (Beginning of Session) 118.92 psi (End of Session) 118.89 psi

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	✓	✓	✓	✓	✓	✓	118.92	✓	0857	0859	✓	118.92	1	1st run; initial parameters; NTU's = 0.72
2	✓	✓	✓	✓	✓	✓	118.89	✓	0919	0921	✓	118.89	1	2nd run; Collect MW-001-006; Cr_{TOT}, Cr^{6+}, ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 144.49 psi

Total Volume: 2

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 542 ft. Date: 3-28-00

Well Name: MW-23 Sampling Zone No.: 5 Starting Time: 0745 Finishing Time: 0845

Technicians: M. Hunt, T. Turpijn-Keasler

Water Level Inside MP Casing (Beginning of Session) 160.55 psi (End of Session) 160.50 psi

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	✓	✓	✓	✓	✓	✓	160.55	✓	0755	0757	✓	160.53	0.75	1st run; initial parameters; NTU's = 2.53
2	✓	✓	✓	✓	✓	✓	160.53	✓	0827	0831	✓	160.50	0.75	2nd run; Collect MW-001-005; ClO_4^-; final parameters
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Pressure outside MP casing = 186.15 psi

Total Volume: 1.5

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 279 Date: 3/23/2000

Well Name: MW-24 Sampling Zone No.: 1 Starting Time: 1155 Finishing Time: 1255

Technicians J. BRENNER, V. RICHARDS, M. FLORES

Water Level Inside MP Casing (Beginning of Session) 14.16 (PS.A) (End of Session) 14.21 PS.A

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	✓	✓	✓	✓	✓	✓	14.16	✓	1205	1209	✓	14.22	1.0	INITIAL PARAMETERS; NTU'S = 1.9
2	✓	✓	✓	✓	✓	✓	14.19	✓	1222	1226	✓	14.20	1.0	COLLECT MW-001-004; 2 VOAS; TOT. Cr.
3	✓	✓	✓	✓	✓	✓	14.19	✓	1242	1246	✓	14.21	1.0	Cr^{6+}, PERCHLORATE FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 45.10 (PS.A)

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: 373 Date: 3/23/2000

Well Name: MW-24 Sampling Zone No.: 2 Starting Time: 1050 Finishing Time: 1150

Technicians: J. Brannon, V. Richards, M. Flores

Water Level Inside MP Casing (Beginning of Session) 37.51 (PSIA) (End of Session) 37.50 (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	✓	✓	✓	✓	✓	✓	37.51	✓	1056	1059	✓	37.49	1.0	INITIAL PARAMETERS; NTU'S = 159
2	✓	✓	✓	✓	✓	✓	37.50	✓	1117	1120	✓	37.53	1.0	COLLECT MW-001-003, 2 VOAS, TOT Cr, Cr6+
3	✓	✓	✓	✓	✓	✓	37.49	✓	1141	1144	✓	37.50	1.0	PERCHLORATE, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 83.12 PSIA

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: 3/23/2005

Well Name: MW-24 Sampling Zone No.: 3 Starting Time: 0935 Finishing Time: 1045

Technicians J. BRENNER, V. RICHARDS M. FLORES

Water Level Inside MP Casing (Beginning of Session) 64.51 (PS.A) (End of Session) 64.53 (PS.A)

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	✓	✓	✓	✓	✓	✓	64.51	✓	0944	0946	✓	64.56	1.0	INITIAL PARAMETERS; NTU'S = 28.4 -002MS
2	✓	✓	✓	✓	✓	✓	64.49	✓	1006	1009	✓	64.51	1.0	COLLECT MW-001-002; (MS/MSD FOR VOCS) -002MSD
3	✓	✓	✓	✓	✓	✓	64.47	✓	1031	1034	✓	64.53	1.0	TOT. Cr, Cr6+ PERCHLORATE FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 108.73 PSIA

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: 554 Date: 3/23/2000

Well Name: MW-24 Sampling Zone No.: 4 Starting Time: 0805 Finishing Time: 0930

Technicians J. BRENNER, Y. RICHARDS, M. FLORES

Water Level Inside MP Casing (Beginning of Session) 116.25 (PSIA) (End of Session) 116.20 (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	✓	✓	✓	✓	✓	✓	116.25	✓	0819	0821	✓	116.23	1.0	INITIAL PARAMETERS; NTU'S = 10.4
2	✓	✓	✓	✓	✓	✓	116.25	✓	0851	0853	✓	116.23	1.0	COLLECT MW-001-001, 2 VOAS, TOT. Cr MS/MSD FOR TOT Cr
3	✓	✓	✓	✓	✓	✓	116.23	✓	0919	0921	✓	116.20	1.0	Cr 6+ PERCHLORATE FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 148.65 PSIA

Total Volume: 3.0 L

F-2

APPENDIX C

FIELD INSTRUMENT CALIBRATION FORMS

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 3-9-00
Instrument Manufacturer: DRT Model: 15CE
Serial Number: 12327 Calibration Date: 3-9-00

STANDARDIZATION

Time: 0900 Scale: 10 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1440 Scale: 10 Zero: Yes Stray Light: —
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: M. Hunt Date: 3-10-00
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 12327 Calibration Date: 3-10-00

STANDARDIZATION

Time: 0815 Scale: 10 Zero: — Stray Light: —
Standard NTU: 0.02 Reading: —
Standard NTU: Reading:

Time: 1345 Scale: 10 Zero: — Stray Light: —
Standard NTU: 0.02 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: Could not get instrument to work properly. Sent the turbidimeter to Hazco to get another one.

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 3-13-00
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 29040 Calibration Date: 3-13-00

STANDARDIZATION

Time: 0810 Scale: 10 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1500 Scale: 10 Zero: Yes Stray Light: —
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: VPL
Standardization by: V. Richard Date: 3-14-00
Instrument Manufacturer: H.F. Scientific Model: DRT-15
Serial Number: 3879 Calibration Date: 3-14-00

STANDARDIZATION

Time: 0728 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1300 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.00
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: V. Richard Date: 3-15-00

Instrument Manufacturer: HF Scientific Model: DRT-15

Serial Number: 3879 Calibration Date: 3-15-00

STANDARDIZATION

Time: ~~0926~~ 0923 (W) Scale: 20 Zero: yes Stray Light: —

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1315 Scale: 20 Zero: yes Stray Light: —

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: V. Richards Date: 3-16-00
Instrument Manufacturer: HF Scientific Model: DRT-15
Serial Number: 3879 Calibration Date: 3-16-00

STANDARDIZATION

Time: 0725 Scale: 20 Zero: yes Stray Light: –
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Calibr. check Time: 1027 Scale: 20 Zero: yes Stray Light: –
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1357 Scale: 20 Zero: yes Stray Light: –
Standard NTU: 0.02 Reading: 0.00
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: V. Richards Date: 3-17-00
Instrument Manufacturer: H.F. Scientific Model: DRT-15
Serial Number: 3879 Calibration Date: 3-17-00

STANDARDIZATION

Time: 0909 Scale: 20 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1308 Scale: 20 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.00
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: V. Richards Date: 3-20-00
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15
Serial Number: 3879 Calibration Date: 3-20-00

STANDARDIZATION

Time: 0840 Scale: 20 Zero: YES Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1436 Scale: 20 Zero: YES Stray Light: —
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: V. Richards Date: 3-21-00

Instrument Manufacturer: H.F. Scientific Model: DRT-15

Serial Number: 3879 Calibration Date: 3-21-00

STANDARDIZATION

Time: 0745 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1250 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.00

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

sheet 1 of 2

Project Name: JPL

Standardization by: V. Richards Date: 3-22-00

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15

Serial Number: 3879 Calibration Date: 3-22-00

STANDARDIZATION

Time: 0730 Scale: 20 Zero: yes Stray Light: —

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: * 1251 battery failure - charger non-operational - switch to new meter see second stand. form.

TURBIDIMETER FIELD STANDARDIZATION FORM

Sheet 2 of 2

Project Name: JPL

Standardization by: V. [illegible] Date: 3-22-00 *

Instrument Manufacturer: H.F. Scientific Model: DRT-15CE

Serial Number: 29040 Calibration Date: 3-22-00 *

STANDARDIZATION

Time: 1253 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1510 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.03
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: * 1st meter malfunction. ~~2nd~~ This reps 2nd meter, for 3/22/00 –

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Miguel Flores Date: 3/23/00
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 290410 Calibration Date: 3/23/00

STANDARDIZATION

Time: 0800 Scale: 10 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1250 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.01
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: M. Flores Date: 3/24/00
Instrument Manufacturer: HF Scientific Model: PRT-15OE
Serial Number: 29640 Calibration Date: 3/24/00

STANDARDIZATION

Time: 0830 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1425 Scale: 10 Zero: yes Stray Light: —
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: V. Richards Date: 3-27-00
Instrument Manufacturer: H.F. Scientific Model: DRT-15CE
Serial Number: 29040 Calibration Date: 3-27-00

STANDARDIZATION

Time: 0650 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1409 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.07
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: Tania Turpyn-Keasler Date: 3/28/00
Instrument Manufacturer: HF Scientific Model: DRT 15CE
Serial Number: 29040 Calibration Date: 3/28/00

STANDARDIZATION

Time: 0805 Scale: 10 Zero: 0.0 yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1215 Scale: 10 Zero: yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.00
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: V. Richards Date: 3-30-00
Instrument Manufacturer: H. F. Scientific Model: ~~HF~~ DRT-15CE
Serial Number: 29040 Calibration Date: 3-30-00

STANDARDIZATION

Time: 0735 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1240 Scale: 10 Zero: yes Stray Light: —
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: V. Richards Date: 3-31-00
Instrument Manufacturer: H.F. SCIENTIFIC Model: DRT-15CE
Serial Number: 29040 Calibration Date: 3-31-00

STANDARDIZATION

Time: 0910 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1210 Scale: 10 Zero: yes Stray Light: —
Standard NTU: 0.02 Reading: 0.01
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: M. Hunt Date: 3-9-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 99H817052
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.00: 3/19/2001 pH 7.00: 8/31/2001 pH 10.00: 2/19/2001

INSTRUMENTATION CHECK-OUT

Time: 0900 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: ±001 Temperature: 15.5 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0900 Slope: — Temperature: 13.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1440 Slope: — Temperature: 25.4
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: M. Hunt Date: 3-10-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 99H817052
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.00: 3/19/2001 pH 7.00: 8/31/2001 pH 10.00: 2/19/2001

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 2.6 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0815 Slope: — Temperature: —
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1345 Slope: — Temperature: —
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments: The temperature probe was not functioning properly. Sent the YSI 3500 (with probes) to Hazco for a replacement.

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: M. Hunt Date: 3-13-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98B812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70590
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.00: 3/19/2001 pH 7.00: 8/31/2001 pH 10.00: 2/19/2001

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 15.6 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0810 Slope: — Temperature: 11.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1500 Slope: — Temperature: 25.5
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: V. Richl Date: 3-14-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98B 812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70520
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8-31-01 pH 10.01: 2-19-01

INSTRUMENTATION CHECK-OUT

Time: 0728 hrs Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 3.6 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0728 Slope: — Temperature: 10.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1300 Slope: — Temperature: 26.6
Response to Low Buffer: 6.88 Response to High Buffer: 9.98
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: V. Richards Date: 3-15-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98B812632
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70590
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/31/2001 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: ~~0911~~ 0923 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 20.1 pH: 7 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0919 Slope: — Temperature: 14.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1315 Slope: Ø Temperature: 28°C
Response to Low Buffer: 7.03 Response to High Buffer: 9.95
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: V. Richards Date: 3-16-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H087 03
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98B812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70590
Buffer Solution Manufacturer: Caltech
Expiration Dates of Buffer Solutions pH 4.01: 3-19-00 pH 7.00: 8/31/01 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0725 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 16.0 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: yes
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: ~~0727~~ 0725 Slope: — Temperature: ~~16.0~~ 12.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1357 Slope: — Temperature: 27.9
Response to Low Buffer: 6.90 Response to High Buffer: 9.88
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: V. Richards Date: 3-17-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98B812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H10520
Buffer Solution Manufacturer: Caltech
Expiration Dates of Buffer Solutions pH 4.01: 3/19/01 pH 7.00: 8/31/01 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0909 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 16.9 pH: 2.00 ISO: —
Reference Chamber Solution Changed ?: yes
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0909 Slope: — Temperature: 14.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1308 Slope: — Temperature: 25.6
Response to Low Buffer: 6.98 Response to High Buffer: 9.82
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: V. Richard Date: 3-20-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98 B 812 637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93 H70520
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 3/19/01 pH 7.00: 8/31/01 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0840 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 15.8 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: yes
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0840 Slope: — Temperature: (JN) ~~14~~ 13.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1436 Slope: — Temperature: 21.3
Response to Low Buffer: 7.01 Response to High Buffer: 10.01
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: V. Richards Date: 3-21-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93 H087 03

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98 B 812 2637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 93H70520

Buffer Solution Manufacturer: Caltech

Expiration Dates of Buffer Solutions: pH 4.01: 3/19/01 pH 7.00: 8/31/01 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD

Instrument Readings with Shorting Plug in: mV: 000 Temperature: 15.1 pH: 7.00 ISO: –

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope (after calibration): – Temperature: 14.4

Response to Low Buffer (after calibration): 7.00 Response to High Buffer (after calibration): 10.00

Time: 1250 Slope (after calibration): – Temperature: 21.9

Response to Low Buffer (after calibration): 7.03 Response to High Buffer (after calibration): 9.84

Time: _____ Slope (after calibration): _____ Temperature: _____

Response to Low Buffer (after calibration): _____ Response to High Buffer (after calibration): _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: IPL

Calibration by: V. Richards Date: 3-22-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 93H70520

Buffer Solution Manufacturer: Cal. tech

Expiration Dates of Buffer Solutions pH 4.01: 3/19/01 pH 7.00: 8/31/01 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 8.4 pH: 2.00 ISO: —

Reference Chamber Solution Changed ?: yes

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0730 Slope: — Temperature: 8.2

Response to Low Buffer: 7.00 Response to High Buffer: 1000

Time: 1510 Slope: — Temperature: 24.1

Response to Low Buffer: 7.07 Response to High Buffer: 10.05

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: Miguel Flores Jr. Date: 3/23/00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 95H0870 3
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70520
Buffer Solution Manufacturer:
Expiration Dates of Buffer Solutions pH 4.01: 2-19-2001 pH 7.00: 8-31,2001 pH 10.01: 2-19-2001

INSTRUMENTATION CHECK-OUT

Time: 08:00 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 14.8 pH: 7.0 ISO: —
Reference Chamber Solution Changed ?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: — Temperature: 9.9
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: 1250 Slope: — Temperature: 24.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.09
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: V. Richards Date: 3-24-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93 H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98B812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70520
Buffer Solution Manufacturer: Caltech
Expiration Dates of Buffer Solutions pH 4.01: 3/19/01 pH 7.00: 8/31/00 (VR) pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: 600
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 11.3 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: yes
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: — Temperature: ~~11.3~~ 9.8 (VR)
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1425 Slope: — Temperature: 25.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.05
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: PL
Calibration by: V. Richards Date: 3-27-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 9813 8 2637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H70520
Buffer Solution Manufacturer: Caltech
Expiration Dates of Buffer Solutions pH 4.01: 3/19/01 pH 7.00: 8/31/01 pH 10.01: 2/19/01

INSTRUMENTATION CHECK-OUT

Time: 0650 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 12.7 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0650 Slope: — Temperature: ~~12.2~~ 11.2 (VV)
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1407 Slope: ~~6.99~~ (VV) Temperature: 21.3
Response to Low Buffer: 6.99 Response to High Buffer: 9.88
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: Tonia Turpyn-Keusler Date: 3/28/00
Instrument Manufacturer: YSI ~~3500~~ Model: 3500
Serial Number: 93408703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98 B 812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93B20590
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: 3/19/01 pH 7.00: 8/31/01 pH 10.01: 3/19/01

INSTRUMENTATION CHECK-OUT

Time: 0805 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 14.3 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0805 Slope: — Temperature: 12.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1215 Slope: — Temperature: 16.6
Response to Low Buffer: 7.16 Response to High Buffer: 10.15
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: V. Richards Date: 3-30-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93 H 08703

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98 B 812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 93H70520

Buffer Solution Manufacturer: Caltech

Expiration Dates of Buffer Solutions pH 4.01: 3/19/00 pH 7.00: 8/31/01 pH 10.01: 2/19/00

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 12.8 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: yes

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0735 Slope: — Temperature: 9.9

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

Time: 1240 Slope: — Temperature: 22.9

Response to Low Buffer: 7.06 Response to High Buffer: 10.41

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: V. Richard Date: 3-31-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 9813 812637
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 93H 70520
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 3-17-01 pH 7.00: 8/31/01 pH 10.01: 2-19-01

INSTRUMENTATION CHECK-OUT

Time: 0910 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 5.2 pH: 7.0 ISO: —
Reference Chamber Solution Changed ?: YES
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0910 Slope: — Temperature: 17.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1210 Slope: — Temperature: 23.3
Response to Low Buffer: 6.97 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%

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 3-9-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734 Calibration Date: 3-9-00
Probe Manufacturer: YSI Model: 3520
Serial Number: 94B79013
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µS/cm Expiration Date: 1/2001

FIELD CALIBRATION

Time: 0900 Temperature: 13.6
Temperature Compensated Solution Conductivity (µ S/cm) 784
Instrument Response: ~~1039~~ 788 Probe Constant: 0.99

Time: 1440 Temperature: 25.2
Temperature Compensated Solution Conductivity (µ S/cm) 1004
Instrument Response: 1020 Probe Constant: 0.98

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: M. Hunt Date: 3-10-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734 Calibration Date: 3-10-00
Probe Manufacturer: YSI Model: 3520
Serial Number: 94B79013
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µS/cm Expiration Date: 1/2001

FIELD CALIBRATION

Time: 0815 Temperature: —
Temperature Compensated Solution Conductivity (µ S/cm) —
Instrument Response: 687 µS/cm Probe Constant: —

Time: 1345 Temperature: —
Temperature Compensated Solution Conductivity (µ S/cm) —
Instrument Response: 1010 µS/cm Probe Constant: —

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: M. Hunt Date: 3-13-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703 Calibration Date: 3-13-00
Probe Manufacturer: YSI Model: 3520
Serial Number: 98C0631
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µS/cm Expiration Date: 1/2001

FIELD CALIBRATION

Time: 0810 Temperature: 11.7
Temperature Compensated Solution Conductivity (µ S/cm) 749
Instrument Response: 753 µS/cm Probe Constant: 0.99

Time: 1500 Temperature: 25.4
Temperature Compensated Solution Conductivity (µ S/cm) 1008
Instrument Response: 1005 µS/cm Probe Constant: 1.00

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Richards Date: 3-14-00

Instrument Manufacturer: YSI Model: ~~3520~~ 3500

Serial Number: ~~98C0631~~ 93408703 Calibration Date:

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS Expiration Date: 01/01

FIELD CALIBRATION

Time: 0728 Temperature: 10.9

Temperature Compensated Solution Conductivity (µ S/cm) ~~47~~ 734

Instrument Response: 728 Probe Constant: 1.01

Time: 1300 Temperature: 26.6

Temperature Compensated Solution Conductivity (µ S/cm) 1031

Instrument Response: 1034 Probe Constant: 1.00

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Richards Date: 3-15-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703 Calibration Date: 3-15-00

Probe Manufacturer: ~~YSI~~ YSI (mJM) Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Expiration Date: 01/01

FIELD CALIBRATION

Time: 0923 Temperature: 14.5

Temperature Compensated Solution Conductivity (µ S/cm) 791

Instrument Response: 808 µS/cm Probe Constant: 0.98

Time: 1315 Temperature: ~~25.8~~ (VJ) 26

Temperature Compensated Solution Conductivity (µ S/cm) 1020

Instrument Response: 1027 Probe Constant: 0.99

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V.R. Date: 3-16-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703 Calibration Date: 3-16-00

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS Expiration Date: 01/01

FIELD CALIBRATION

Time: 0725 Temperature: 12.8

Temperature Compensated Solution Conductivity (µ S/cm) 769

Instrument Response: 772 Probe Constant: 1.00

Time: ~~1406~~ 1357 Temperature: 26.7

Temperature Compensated Solution Conductivity (µ S/cm) 1033

Instrument Response: 1043 Probe Constant: 0.99

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Richards Date: 3-17-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703 Calibration Date: 3-17-00
Probe Manufacturer: YSI Model: 3520
Serial Number: 98C0631
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µS Expiration Date: 01/01

FIELD CALIBRATION

Time: 0909 Temperature: 15.0
Temperature Compensated Solution Conductivity (µ S/cm) 810
Instrument Response: 812 Probe Constant: 1.00

Time: 1308 Temperature: 27.3
Temperature Compensated Solution Conductivity (µ S/cm) 1045
Instrument Response: 1037 Probe Constant: 1.01

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: PL

Calibration by: V. Richards Date: 3-20-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H0 8703 Calibration Date: 3-20-00

Probe Manufacturer: YSI Model: ~~3530~~ 3520

Serial Number: ~~98 B 812637~~ 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS Expiration Date: 01/01

FIELD CALIBRATION

Time: 0840 Temperature: 14.4

Temperature Compensated Solution Conductivity (µ S/cm) 799

Instrument Response: 795 Probe Constant: 1.01

Time: 1436 Temperature: 22.0

Temperature Compensated Solution Conductivity (µ S/cm) 942

Instrument Response: 941 Probe Constant: 1.00

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Richards Date 3-21-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H087 03

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS Solution Expiration Date: 01/01

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 14.5

Temperature Compensated Solution Conductivity (µ S/cm)* 801

Instrument Response to Calibration Solution: 796

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

Time: 1250 Temperature of Solution: 21.4

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

Instrument Response to Calibration Solution: 934

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: VPL
Calibration by: V. Richards Date: 3-22-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93 H08703 Calibration Date: 3-22-00
Probe Manufacturer: YSI Model: 3520
Serial Number: 98C 0631
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µs Expiration Date: 01/01

FIELD CALIBRATION

Time: 0730 Temperature: 8.6
Temperature Compensated Solution Conductivity (µ S/cm) 693
Instrument Response: 684 Probe Constant: 1.01

Time: 1510 Temperature: 23.8
Temperature Compensated Solution Conductivity (µ S/cm) 977
Instrument Response: 984 Probe Constant: 0.99

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: Miguel Flores Jr Date: 3/23/06
Instrument Manufacturer: YSI Model: 3506
Serial Number: 93400703 Calibration Date: 3/23/06
Probe Manufacturer: YSI Model: 3520
Serial Number: 98C0631
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µS Expiration Date: 01-01

FIELD CALIBRATION

Time: 0800 Temperature: 10.7
Temperature Compensated Solution Conductivity (µ S/cm) 731
Instrument Response: 738 Probe Constant: 0.99

Time: 1250 Temperature: 23.3
Temperature Compensated Solution Conductivity (µ S/cm) 967
Instrument Response: 980 Probe Constant: 0.99

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Richards Date: 3-24-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H08703 Calibration Date: 3-24-00

Probe Manufacturer: YSI (J) Model: ~~3330~~ 3520

Serial Number: ~~98 B 812637~~ 98C0631

Calibration Solution Manufacturer: ~~Caltech~~ YSI

Solution Conductivity: 1000 µ Expiration Date: 01/01

FIELD CALIBRATION

Time: 0830 Temperature: 10.3

Temperature Compensated Solution Conductivity (µ S/cm) 723

Instrument Response: 722 Probe Constant: 1.00

Time: 1425 Temperature: 24.7

Temperature Compensated Solution Conductivity (µ S/cm) 994

Instrument Response: 968 Probe Constant: 1.03

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Richards Date: 3-27-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H0873 Calibration Date: 3-27-00

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer:

Solution Conductivity: Expiration Date:

FIELD CALIBRATION

Time: 0650 Temperature: 10.8

Temperature Compensated Solution Conductivity (µ S/cm) 733

Instrument Response: 733 Probe Constant: 1.00

Time: 1409 Temperature: 20.7

Temperature Compensated Solution Conductivity (µ S/cm) 917

Instrument Response: 915 Probe Constant: 1.00

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: Tania Turpyn-Keesler Date: 3/28/00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703 Calibration Date: 3/28/00
Probe Manufacturer: YSI Model: 3520
Serial Number: 98C0631
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 us/cm Expiration Date: 01/01

FIELD CALIBRATION

Time: 0805 Temperature: 13.00
Temperature Compensated Solution Conductivity (µ S/cm) ~~1000 us/cm~~ 773
Instrument Response: 766 Probe Constant: 1.01

Time: 1215 Temperature: 16.1
Temperature Compensated Solution Conductivity (µ S/cm) ~~831 + 11~~ ~~1000 us/cm~~ 830
Instrument Response: 831 Probe Constant: 1.00

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: UPL.
Calibration by: V. Richards. Date: 3-30-00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703 Calibration Date: 3-30-00
Probe Manufacturer: YSI Model: 3520
Serial Number: 98C0631
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µs Expiration Date: 01/01

FIELD CALIBRATION

Time: 0735 Temperature: 10.3
Temperature Compensated Solution Conductivity (µ S/cm) 723
Instrument Response: 728 Probe Constant: 0.99

Time: 1240 Temperature: 22.6
Temperature Compensated Solution Conductivity (µ S/cm) 954
Instrument Response: ~~1685~~ 988 (MSA) Probe Constant: 0.97

Time: Temperature:
Temperature Compensated Solution Conductivity (µ S/cm)
Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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: V. Ridal Date: 3-31-00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93H085703 Calibration Date: 3-31-00

Probe Manufacturer: YSI Model: 3520

Serial Number: 95C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS Expiration Date: 01/01

FIELD CALIBRATION

Time: 0910 Temperature: 17.7

Temperature Compensated Solution Conductivity (µ S/cm) 860

Instrument Response: 868 Probe Constant: 0.99

Time: 1210 Temperature: 23.0

Temperature Compensated Solution Conductivity (µ S/cm) 961

Instrument Response: 959 Probe Constant: 1.00

Time: Temperature:

Temperature Compensated Solution Conductivity (µ S/cm)

Instrument Response: Probe Constant:

The Temperature Compensated Solution Conductivity May Be Computed Using:
Conductivity (µ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

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 an 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-3-2	63762	MW-001-070	1	3/9/2000
MW-3-3	63762	MW-001-069	1	3/9/2000
MW-3-4	63762	MW-001-068	1	3/9/2000
MW-3-5	63762	MW-001-067	1	3/9/2000
MW-4-1	63869	MW-001-066	4	3/14/2000
MW-4-2	63869	MW-001-065	4	3/14/2000
MW-4-2 Dup	63869	MW-001-064	4	3/14/2000
MW-4-3	63869	MW-001-063	4	3/14/2000
MW-4-4	63869	MW-001-062	4	3/14/2000
MW-4-5	63869	MW-001-061	4	3/14/2000
MW-5	64451	MW-001-060	16	3/31/2000
MW-6	64270	MW-001-059	12	3/24/2000
MW-7	64270	MW-001-058	12	3/24/2000
MW-8	64312	MW-001-057	13	3/27/2000
MW-10	64270	MW-001-056	12	3/24/2000
MW-10 Dup	64270	MW-001-055	12	3/24/2000
MW-11-1	63931	MW-001-054	5	3/15/2000
MW-11-2	63931	MW-001-053	5	3/15/2000
MW-11-3	63931	MW-001-052	5	3/15/2000
MW-11-4	63931	MW-001-051	5	3/15/2000
MW-12-1	63963	MW-001-050	6	3/16/2000
MW-12-2	63963	MW-001-049	6	3/16/2000
MW-12-2 Dup	63963	MW-001-048	6	3/16/2000
MW-12-3	63963	MW-001-047	6	3/16/2000
MW-12-4	63963	MW-001-046	6	3/16/2000
MW-12-5	63963	MW-001-045	6	3/16/2000
MW-13	64312	MW-001-044	13	3/27/2000
MW-13 Dup	64312	MW-001-043	13	3/27/2000
MW-14-1	64445	MW-001-042	15	3/30/2000
MW-14-2	64445	MW-001-041	15	3/30/2000
MW-14-3	64445	MW-001-040	15	3/30/2000
MW-14-4	64445	MW-001-039	15	3/30/2000
MW-14-5	64445	MW-001-038	15	3/30/2000
MW-16	64451	MW-001-037	16	3/31/2000
MW-17-2	63845	MW-001-036	3	3/13/2000
MW-17-3	63845	MW-001-035	3	3/13/2000
MW-17-4	63845	MW-001-034	3	3/13/2000
MW-17-5	63845	MW-001-033	3	3/13/2000
MW-18-2	64085	MW-001-032	8	3/20/2000
MW-18-3	64085	MW-001-031	8	3/20/2000
MW-18-4	64085	MW-001-030	8	3/20/2000
MW-18-5	64085	MW-001-029	8	3/20/2000
MW-19-1	64127	MW-001-028	9	3/21/2000
MW-19-2	64127	MW-001-027	9	3/21/2000

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-19-3	64127	MW-001-026	9	3/21/2000
MW-19-4	64127	MW-001-025	9	3/21/2000
MW-19-5	64127	MW-001-024	9	3/21/2000
MW-20-1	64174	MW-001-023	10	3/22/2000
MW-20-2	64174	MW-001-022	10	3/22/2000
MW-20-3	64174	MW-001-021	10	3/22/2000
MW-20-4	64174	MW-001-020	10	3/22/2000
MW-20-5	64174	MW-001-019	10	3/22/2000
MW-21-1	63784	MW-001-018	2	3/10/2000
MW-21-2	63784	MW-001-017	2	3/10/2000
MW-21-3	63784	MW-001-016	2	3/10/2000
MW-21-4	63784	MW-001-015	2	3/10/2000
MW-21-5	63784	MW-001-014	2	3/10/2000
MW-22-1	64037	MW-001-013	7	3/17/2000
MW-22-2	64037	MW-001-012	7	3/17/2000
MW-22-3	64037	MW-001-011	7	3/17/2000
MW-22-4	64037	MW-001-010	7	3/17/2000
MW-23-1	64325	MW-001-009	14	3/28/2000
MW-23-2	64325	MW-001-008	14	3/28/2000
MW-23-3	64325	MW-001-007	14	3/28/2000
MW-23-4	64325	MW-001-006	14	3/28/2000
MW-23-5	64325	MW-001-005	14	3/28/2000
MW-24-1	64205	MW-001-004	11	3/23/2000
MW-24-2	64205	MW-001-003	11	3/23/2000
MW-24-3	64205	MW-001-002	11	3/23/2000
MW-24-4	64205	MW-001-001	11	3/23/2000

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
EB	63762	MW-001-71	1	3/9/2000
TB	63762	MW-001-72	1	3/9/2000
EB	63784	MW-001-73	2	3/10/2000
TB	63784	MW-001-74	2	3/10/2000
EB	63845	MW-001-75	3	3/13/2000
TB	63845	MW-001-76	3	3/13/2000
EB	63869	MW-001-77	4	3/14/2000
TB	63869	MW-001-78	4	3/14/2000
EB	63931	MW-001-79	5	3/15/2000
TB	63931	MW-001-80	5	3/15/2000
EB	63963	MW-001-81	6	3/16/2000
TB	63963	MW-001-82	6	3/16/2000
EB	64037	MW-001-83	7	3/17/2000
TB	64037	MW-001-84	7	3/17/2000
EB	64085	MW-001-85	8	3/20/2000
TB	64085	MW-001-86	8	3/20/2000
EB	64127	MW-001-87	9	3/21/2000
TB	64127	MW-001-88	9	3/21/2000
EB	64174	MW-001-89	10	3/22/2000
TB	64174	MW-001-90	10	3/22/2000
EB	64205	MW-001-91	11	3/23/2000
TB	64205	MW-001-92	11	3/23/2000
TB	64270	MW-001-94	12	3/24/2000
FB	64270	MW-001-200	12	3/24/2000
TB	64312	MW-001-95	13	3/27/2000
TB	64325	MW-001-96	14	3/28/2000
EB	64325	MW-001-97	14	3/28/2000
TB	64445	MW-001-98	15	3/30/2000
EB	64445	MW-001-99	15	3/30/2000
TB	64451	MW-001-100	16	3/31/2000

MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

April 6, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 63762 (MW-001-072, MW-001-067, MW-001-071, MW-001-068, MW-001-069, MW-001-070, MW-001-070)

Sampled: 03/09/00

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)

(524.2) QC batch 112559 analyzed 3/14/00: The MS/MSD pair was analyzed two times, 3/14 and 3/16. Both analyses had the same analytes recover outside the MWL and Method acceptance limits for the following: Methylene chloride 135%(RPD of MS/MSD 5.5%), Chloroethane 134% (RPD of MS/MSD 17.5%), and Bromochloromethane 140%(RPD of MS/MSD pair 22.2%). The RPDs are within ± 30% and the confirmation by re-analysis indicates that the recoveries may be due to matrix interference on the sample used for the MS/MSD. The sample used is not reported with this report group. All other method QC is within acceptance criteria. Results for samples in this report group are reported without qualification.

Samples requiring dilution (with increased MRL's):

MW-001-069 was diluted for Carbon Tetrachloride and Chloroform

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-001-069
Chloroform was detected in MW-001-071, MW-001-69
Trichloroethylene was detected in MW-001-069
Trichlorotrifluoroethane was detected in MW-001-069
Perchlorate was detected in MW-001-069

TIC'S:

Carbonyl Sulfide was detected in MW-001-068

Method Variation:

TIC's are reported only if the final result is >0.5 ug/L.

Additional Comments:

None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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

Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

63762

NUMBER 1659

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0305

PROJECT ADDRESS: 4800 Oak Grove Drive, Pasadena CA

SAMPLER (Name): Mat Hunt

SAMPLER (Signature): Matthew L. Hunt

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)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOLs	Cr PT	Cr^{6+}	ClO_4^-	QC for Cr+6				
MW-001-072	1000	3/9/00	~~2~~ MLH	40ml	X			X								
MW-001-067	1210		~~5~~ 1	~~2x40ml 3x125~~ MLH 1x125	X			~~X~~ (11)	~~X~~	~~X~~	X					
MW-001-071	1015		5	2x40ml 3x125ml	X			X	X	X	X					
MW-001-068	1315		5	2x40ml 3x125ml	X			X	X	X	X					
MW-001-069	1355		5	2x40ml 3x125ml	X			X	X	X	X	X				
MW-001-070	1440		5	2x40ml 3x125ml	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)
Matthew L. Hunt	3/9/00	[illegible]			
COMPANY: Foster Wheeler	TIME: 1556	COMPANY: [illegible]	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH (FOSTER WHEELER) DATE RECEIVED: 3-9-00

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 3-9-00
By (print) MARTIN L. DELLESA (sign)

1. Did cooler come with shipping slip (air bill, etc.)? **Yes** No MLD 3-9-00
   If yes, attach and enter carrier and air bill number here: DELIVERED BY CLIENT
2. Were custody seals on outside of cooler? **Yes** No
   If yes, how many and where: 2 OUTSIDE LID
   If yes, enter the following: seal date: 3-9-00 seal name: MLH
3. Were custody seals unbroken and intact at delivery? **Yes** No
4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 3-9-00

B. LOGIN PHASE
Date samples were logged in: 3-9-00
By (print) M. DE LLESA (sign)

9. Describe packing:
10. If required, was enough ice used? **Yes** No REG ICE & B.I = TEMP 5°C
11. Were all bottles sealed in separate plastic bags? **Yes** No
12. Did all bottles arrive unbroken and in good condition? **Yes** No
13. Were all bottle labels complete (ID, date, sign, preservative)?
14. Did all bottle labels agree with custody papers? If no, list on back. **Yes** No
15. Were correct containers used 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? If no, list by sample ID on back. **Yes** No
19. Was Client Services informed of problems? Yes No

Received by QA on 3.21.00

#63762 DEB FOSTER
GCMS-00-043 Wheeler

QUALITY INVESTIGATION REPORT

QIR No. _____

Analysis Date: 3/14/00
Analysis: EPA 524.2 (@EBASVOA)
Extraction Date: —
Matrix: water
Analyst: COL
Instrument ID: GCMS-H

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
see attached					

Brief Description: (include reason for non-compliance)
Methylene chloride recovered above QC limit in the matrix spike. Chloroethane and bromochloromethane recovered above QC limit in the matrix spike duplicate.

Action Taken: MS & MSD reanalyzed on 3/16/00 and 2 analytes failed again.

LFB on both days are acceptable and recovered well within QC limits.

Impact on Data Quality: None of the associated samples nor original sample ~~samples do not~~ contains CH_2Cl_2, Chloroethane or bromochloromethane, No impact high recovery on MS on ND compounds.

Data Disposition: Re-run ☐ Re-sample ☐ Original Data Reported ☒ Report Annotated ☒

Other:

Annotation: See ~~app~~ on Email for Validation Comment.

Client Contact: MSG M. Cutler Email 3/22
ok to annotate & report See attached Email. ~~DEB~~ 3/23/00

Extraction:		Date:	
Analyst:	Cecilia Lei	Date:	3/20/00
Group Leader:	[signature]	Date:	3/21/00
QA Coordinator:	[signature]	Date:	3/21/00
Project Manager:	[signature]	Date:	3/23/00

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MCutler@fwenc.com on 03/23/2000 07:24:38 AM

To: Debbie L Frank/User/Americas/Montgomery Watson@MW
cc:

Subject: Re: VOCs QIR for High Recovery MS/MSD

Sounds good to us. Thanks.

Debbie.L.Frank
@us.mw.com
03/22/00 03:55
PM

To: mcutler@fwenc.com
cc:
Subject: VOCs QIR for High Recovery MS/MSD

~~One of the MS's in two separate~~ MS/MSD pairs recovered high for 3 compounds.
Here are the details. LEt me know if you wish to approach this differently. We
plan to report and Annotate as below.

Compound Sample ID RPD Possible Cause
Methylene Chloride (135%) MW-001-015 MS RPD with MSD 5.5%
Matrix Affect
Chloroethane (134%) MW-001-015 MSD RPD with MS 17.5% Matrix
Affect
Bromochloromethane (140%) MW-001-015 MSD RPD with MS 22.2%
Possible
Matrix affect RPD a little high
MWL default RPD limits 20%, No
method
Limits
No QAPP definition of Limits.
RPD Limits could reasonably be as broad as 30% (
Recoveries are + 30%)

all associated samples and the original are ND for these analytes. No qualification of data necessary. Annotate sample used for MS/MSD re: Likely
matrix interference for VOC analysis for Methylene Chloride and Chloroethane.
Possible Matrix interference with Bromochloromethane. causing potential high
bias to results for these compounds. All results are ND. Data is reported without qualification. Annotation to be used

Samples affected:
MW-001-072 -070
-071 -074
-068 -014
-069 -073
-015
-016
-017
-018

Debbie L Frank
03/22/2000 03:55 PM

To: mcutler@fwenc.com
cc:

Subject: VOCs QIR for High Recovery MS/MSD

One of the MS's in two separate MS/MSD pairs recovered high for 3 compounds.
Here are the details. LEt me know if you wish to approach this differently. We plan to report and Annotate as below.

limit

Compound	Sample ID		RPD	Possible Cause	
Methylene Chloride (135%)	MW-001-015	MS	RPD with MSD	5.5%	Matrix Affect
Chloroethane (134%)	MW-001-015 MSD		RPD with MS	17.5%	Matrix Affect
Bromochloromethane (140%)	MW-001-015 MSD		RPD with MS	22.2%	Possible Matrix affect

RPD a little high

MWL default RPD limits 20%, No method Limits

No QAPP definition of Limits.
RPD Limits could reasonably be as broad as 30% (Recoveries are ± 30%)

all associated samples and the original are ND for these analytes. No qualification of data necessary. Annotate sample used for MS/MSD re: Likely matrix interference for VOC analysis for Methylene Chloride and Chloroethane. Possible Matrix interference with Bromochloromethane. causing potential high bias to results for these compounds. All results are ND. Data is reported without qualification.

Samples affected:
MW-001-072
-071
-068
-069
-070
-074
-014
-073
-015
-016
-017
-018

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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

MONTGOMERY WATSON LABS.
SUBMITTED ON
MAR 31 2000

DEB* Debbie Frank

Report#: 63762
JPL

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Report
Comments
#63762

Group Comments

(524.2) One fortified sample in two separate analysis of one MS/MSD pair exceeded QC criteria for 3 compounds.
Methylene chloride (135%) in MW-001-015MS RPD 5.5%
Chloroethane (134%) in MW-001-015 MSD RPD 17.5%
Bromochloromethane(140%) in MW-001-015 MSD RPD 22.2%
All associated samples and the sample that was fortified are ND for these analytes. No qualification necessary.
Possible cause matrix interference.

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Laboratory
Report
#63762

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

Samples Received
09-mar-2000 15:56:00

MW-001-072 (2003090390) Sampled on 03/09/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #63762

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	84	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory Report #63762

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-067 (2003090391) Sampled on 03/09/00								
	03/12/00	112216	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
MW-001-071 (2003090392) Sampled on 03/09/00								
	03/12/00	112216	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/09/00	112057	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		
MW-001-068 (2003090393) Sampled on 03/09/00								
	03/12/00	112216	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/09/00	112057	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory Report #63762

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbonyl Sulfide	4.1	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	102	% Rec		
MW-001-069 (2003090394) Sampled on 03/09/00								
	03/12/00	112216	(CADHS/EPA314)	Perchlorate	19.4	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/09/00	112057	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/16/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	42	ug/l	1.2	2.5
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/16/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	32	ug/l	1.2	2.5
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.9	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	1.1	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-070 (2003090395) Sampled on 03/09/00								
	03/12/00	112216	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/09/00	112057	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(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	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	106	% Rec		
			(Surrogate)	Toluene-d8	85	% Rec		

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Laboratory
QC Summary Report
#63762

Foster Wheeler Environmental, Inc

QC Batch #112057 - Hexavalent chromium (Cr VI) Analysis Date: 03/09/2000

2003090392	MW-001-071
2003090393	MW-001-068
2003090394	MW-001-069
2003090395	MW-001-070

QC Batch #112216 - Perchlorate Analysis Date: 03/12/2000

2003090391	MW-001-067
2003090392	MW-001-071
2003090393	MW-001-068
2003090394	MW-001-069
2003090395	MW-001-070

Batch #112559 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/14/2000

2003090390	MW-001-072
2003090392	MW-001-071
2003090393	MW-001-068
2003090394	MW-001-069
2003090394	MW-001-069
2003090395	MW-001-070

QC Batch #112929 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003090392	MW-001-071
2003090393	MW-001-068
2003090394	MW-001-069
2003090395	MW-001-070

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Laboratory
QC Report
#63762

Foster Wheeler Environmental, Inc

QC Batch #112057 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.048	96.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	

QC Batch #112216 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03090391		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	24.3	97.2	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.0	100.0	(90.00 - 110.00)	2.8
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.6	98.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.2	96.0	(75.00 - 125.00)	2.1

QC Batch #112559 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.35	108.7	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.19	104.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.47	111.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.53	113.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.28	107.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.37	109.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.57	114.2	(70.00 - 130.00)	4.5
LCS1	1,1-Dichloropropene	4	4.39	109.7	(70.00 - 130.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Foster Wheeler Environmental, Inc
(continued)

MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.38	109.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.50	112.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.45	111.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.44	111.0	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.52	113.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.45	111.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.25	106.2	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.23	105.8	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	47.0	117.5	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.09	102.2	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	48.6	121.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03100353		(0.00 - 0.00)	
LCS1	Benzene	4	4.45	111.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.55	113.8	(70.00 - 130.00)	
MSD	Benzene	4	4.54	113.5	(70.00 - 130.00)	0.22
LCS1	Bromobenzene	4	4.32	108.0	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				

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Laboratory
QC Report
#63762

Foster Wheeler Environmental, Inc
(continued)

LCS1	Bromomethane (Methyl Bromide)	2	2.23	111.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.44	111.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.40	110.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.45	111.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.39	109.7	(70.00 - 130.00)	1.4
LCS1	Carbon Tetrachloride	4	4.33	108.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.27	81.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.23	105.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.70	117.5	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.01	100.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.81	90.5	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.41	110.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.42	110.5	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.38	109.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.41	110.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.26	106.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	2.05	102.5	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.18	109.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				

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(continued)

LCS1	Isopropylbenzene	4	4.21	105.2	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.29	107.2	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.78	109.7	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	4.56	114.0	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	4.31	107.7	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.41	110.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.24	106.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.26	106.5	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	4.12	103.0	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.70	117.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	99	99.0		
MS	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	2.8
LCS1	Toluene-d8	100	104	104.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	100	100.0		
MS	Toluene-d8	100	104	104.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	1.9
LCS1	4-Bromofluorobenzene	100	103	103.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	99	99.0		
MS	4-Bromofluorobenzene	100	101	101.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	99	99.0	(86.00 - 115.00)	2.0
LCS1	trans-1,2-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	

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(continued)

MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.31	107.7	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.72	118.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.79	119.8	(70.00 - 130.00)	1.5
LCS1	Trichlorotrifluoroethane(Freon	2	2.14	107.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.31	107.7	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.43	110.8	(70.00 - 130.00)	
MSD	Toluene	4	4.34	108.5	(70.00 - 130.00)	2.1
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112929 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130416		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	94	94.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	2.1

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MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 6, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 63784 (MW-001-074, MW-001-014, MW-001-073, MW-001-015, MW-001-016, MW-001-017, MW-001-018)

Sampled: 03/10/00

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)

(524.2) QC batch 112559 analyzed 3/14/00: The MS/MSD pair was analyzed two times, 3/14 and 3/16. Both analyses had the same analytes recover outside the MWL and Method acceptance limits for the following: Methylene chloride 135%(RPD of MS/MSD 5.5%), Chloroethane 134% (RPD of MS/MSD 17.5%), and Bromochloromethane 140%(RPD of MS/MSD pair 22.2%). The RPDs are within ± 30% and the confirmation by re-analysis indicates that the recoveries may be due to matrix interference on the sample used for the MS/MSD. The sample used is MW-001-015 and may contain a high bias to results reported for these compounds. MW-001-015 is ND for the compounds. All other method QC is within acceptance criteria. Results for all other samples in this report group are reported without qualification.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Bromodichloromethane was detected in Mw-001-014
Chloroform was detected in MW-001-073, 014, 016, 018
Tetrachloroethylene was detected in MW-001-014, 015, 016, 017, 018
Trichloroethylene was detected in MW-001-014, 016, 018
Cis-1,2-Dichloroethylene was detected in Mw-001-014, 015
Perchlorate was detected in MW-001-014, 017, 018

TIC'S:

Carbonyl Sulfide was detected in MW-001-017

Method Variation:

TIC's are reported only if the final result is >0.5 ug/L.

Additional Comments:

None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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ER 1661

FOSTER WHEELER ENVIRONMENTAL CORPORATION

63784

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 0305

PROJECT ADDRESS: 4800 Oak Grove Dr, Pasadena CA

SAMPLER (Name): Mat Hunt

SAMPLER (Signature): Mathew L. Hunt

LABORATORY: Montgomery Watson Lab

REPORTS TO BE SENT TO: Mr. Mark Cutler

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

TIME REQUIRED: NORMAL ☒ ____ DAYS; RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs	ClO4-	Cr TOT	Cr 6+	MS for VOC	MSD for VOCs				
MW-001-074	0930	3/10/00	2	40ml	X			X									
MW-001-014	0950	3/10/00	3	2x40ml 1x125ml	X			X	X								
MW-001-073	1000	3/10/00	5	2x40ml 3x125ml	X			X	X	X	X						
MW-001-015	[illegible]		3	[illegible]	X			X	X								
MW-001-015 MS	[illegible]		2	2x40ml	X			(11) X				X					
MW-001-015 MSD	[illegible]		~~3~~ 2	2x40ml 1x125ml	X			(11) X					X				
MW-001-016	1125	3/10/00	3	2x40ml	X			X	X								
MW-001-017	1200	3/10/00	3	2x40ml 1x125ml	X			X	X								
MW-001-018	1250	3/10/00	3	2x40ml 1x125ml	X			X	X								

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
Mathew L. Hunt	3-10-00	[signature]			
COMPANY: FWENC	TIME: 1512	COMPANY: M. DE MESA	COMPANY	TIME	COMPANY

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 3-10-00

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 3-10-00
By (print) M. DE MESA (sign)

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: DEL BY CLIENT

2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 TOP LID
If yes, enter the following: seal date: 3-10-00 seal name: MLH

3. Were custody seals unbroken and intact at delivery? Yes No

4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 3-10-00

B. LOGIN PHASE
Date samples were logged in: 3-10-00
By (print) M. DE MESA (sign)

9. Describe packing:

10. If required, was enough ice used? Yes No REF ICE 5°C

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

12. Did all bottles arrive unbroken and in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. Yes No

15. Were correct containers used 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? If no, list by sample ID on back. Yes No

19. Was Client Services informed of problems? Yes No

Received by QA on 3.21.00 #63784 #63762 DEB Foster Wheeler GCMS-00-043

QUALITY INVESTIGATION REPORT

QIR No.

Analysis Date: 3/14/00

Analysis: EPA 524.2 (@EBASVOA)

Extraction Date: —

Matrix: water

Analyst: COL

Instrument ID: GCMS-H

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
see attached					

Brief Description: (include reason for non-compliance)

Methylene chloride recovered above QC limit in the matrix spike. Chloroethane and bromochloromethane recovered above QC limit in the matrix spike duplicate.

Action Taken: MS & MSD reanalyzed on 3/16/00 and 2 analytes failed again.

LFB on both days are acceptable and recovered well within QC limits.

Impact on Data Quality: None of the asociated samples nor original sample ~~samples did not~~ contained CH_2Cl_2, Chloroethane or bromochloromethane, No impact high recovery on MS on ND compounds.

Data Disposition: Re-run ☐ Re-sample ☐ Original Data Reported ☒ Report Annotated ☒

Other:

Annotation: See ~~att~~ on Email for Validation Comment.

Client Contact: MSG M. Cutler Email 3/22

ok to annotate & report See attached Email. DEB 3/23/00

Extraction:		Date:	
Analyst:	Cecilia Lei	Date:	3/20/00
Group Leader:	[illegible]	Date:	3/21/00
QA Coordinator:	[illegible]	Date:	3/21/00
Project Manager:	[illegible]	Date:	3/23/00

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MCutler@fwenc.com on 03/23/2000 07:24:38 AM

To: Debbie L Frank/User/Americas/Montgomery Watson@MW
cc:

Subject: Re: VOCs QIR for High Recovery MS/MSD

Sounds good to us. Thanks.

Debbie.L.Frank
@us.mw.com
03/22/00 03:55
PM

To: mcutler@fwenc.com
cc:
Subject: VOCs QIR for High Recovery MS/MSD

~~One of the MS's in two separate~~ MS/MSD pairs recovered high for 3 compounds.
Here are the details. LEt me know if you wish to approach this differently. We
plan to report and Annotate as below.

Compound	Sample ID	RPD	Possible Cause
Methylene Chloride (135%)	MW-001-015	MS	RPD with MSD 5.5% Matrix Affect
Chloroethane (134%)	MW-001-015 MSD	RPD with MS	17.5% Matrix Affect
Bromochloromethane (140%)	MW-001-015 MSD	RPD with MS	22.2% Possible Matrix affect RPD a little high

MWL default RPD limits 20%, No method Limits

No QAPP definition of Limits.
RPD Limits could reasonably be as broad as 30% (Recoveries are + 30%)

all associated samples and the original are ND for these analytes. No qualification of data necessary. Annotate sample used for MS/MSD re: Likely
matrix interference for VOC analysis for Methylene Chloride and Chloroethane.
Possible Matrix interference with Bromochloromethane. causing potential high
bias to results for these compounds. All results are ND. Data is reported without qualification. Annotation to be used

Samples affected:

MW-001-072	-070
-071	-074
-068	-014
-069	-073
	-015
	-016
	-017
	-018

Debbie L Frank
03/22/2000 03:55 PM

To: mcutler@fwenc.com
cc:

Subject: VOCs QIR for High Recovery MS/MSD

One of the MS's in two separate MS/MSD pairs recovered high for 3 compounds.
Here are the details. LEt me know if you wish to approach this differently. We plan to report and Annotate as below.

limit

Compound	Sample ID		RPD	Possible Cause	
Methylene Chloride (135%)	MW-001-015	MS	RPD with MSD	5.5%	Matrix Affect
Chloroethane (134%)	MW-001-015 MSD		RPD with MS	17.5%	Matrix Affect
Bromochloromethane (140%)	MW-001-015 MSD		RPD with MS	22.2%	Possible Matrix affect

RPD a little high

MWL default RPD limits 20%, No method Limits

No QAPP definition of Limits.
RPD Limits could reasonably be as broad as 30% (Recoveries are ± 30%)

all associated samples and the original are ND for these analytes. No qualification of data necessary. Annotate sample used for MS/MSD re: Likely matrix interference for VOC analysis for Methylene Chloride and Chloroethane. Possible Matrix interference with Bromochloromethane. causing potential high bias to results for these compounds. All results are ND. Data is reported without qualification.

Samples affected:
MW-001-072
-071
-068
-069
-070
-074
-014
-073
-015
-016
-017
-018

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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

MONTGOMERY WATSON LABS.
SUBMITTED ON

MAR 31 2000

DEB* Debbie Frank

Report#: 63784
JPL

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Report
Comments
#63784

Group Comments

(524.2) One fortified sample in two separate analysis of one MS/MSD pair exceeded QC criteria for 3 compounds.

Methylene chloride (135%) in MW-001-015 MS	RPD 5.5%
Chloroethane (134%) in MW-001-015 MSD	RPD 17.5%
Bromochloromethane (140%) in MW-001-015 MSD	RPD 22.2%

All associated samples and the sample that was fortified are ND for these analytes. No Qualification necessary.
Possible cause matrix interference.

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Laboratory Report #63784

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

Samples Received
10-mar-2000 15:42:00

MW-001-074 (2003100350) Sampled on 03/10/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #63784

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-014 (2003100351) Sampled on 03/10/00								
	03/12/00	112217	(CADHS/EPA314)	Perchlorate	4.2	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	2.5	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.2	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	0.6	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	12	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	106	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-073 (2003100352) Sampled on 03/10/00								
	03/12/00	112217	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/10/00	112112	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(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	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-015 (2003100353) Sampled on 03/10/00								
	03/12/00	112217	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	0.9	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	4.0	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-016 (2003100354) Sampled on 03/10/00								
	03/12/00	112218	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.3	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.9	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-017 (2003100355) Sampled on 03/10/00								
	03/12/00	112218	(CADHS/EPA314)	Perchlorate	4.1	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.9	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbonyl Sulfide	1.8	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-018 (2003100356) Sampled on 03/10/00								
	03/12/00	112218	(CADHS/EPA314)	Perchlorate	12	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/14/00	112559	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/14/00	112559	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/14/00	112559	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichloroethylene (TCE)	17	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/14/00	112559	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory
QC Summary Report
#63784

Foster Wheeler Environmental, Inc

QC Batch #112112 - Hexavalent chromium (Cr VI) Analysis Date: 03/10/2000

2003100352	MW-001-073

QC Batch #112217 - Perchlorate Analysis Date: 03/12/2000

2003100351	MW-001-014
2003100352	MW-001-073
2003100353	MW-001-015

QC Batch #112218 - Perchlorate Analysis Date: 03/12/2000

2003100354	MW-001-016
2003100355	MW-001-017
2003100356	MW-001-018

QC Batch #112559 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/14/2000

2003100350	MW-001-074
2003100351	MW-001-014
2003100352	MW-001-073
2003100353	MW-001-015
2003100354	MW-001-016
2003100355	MW-001-017
2003100356	MW-001-018

QC Batch #112929 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003100352	MW-001-073

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Laboratory
QC Report
#63784

Foster Wheeler Environmental, Inc

QC Batch #112112 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(78.00 - 118.00)	1.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	

QC Batch #112217 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03100351		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	24.7	98.8	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.6	102.4	(90.00 - 110.00)	3.6
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 #112218 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03100351		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	24.7	98.8	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.6	102.4	(90.00 - 110.00)	3.6
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 #112559 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.35	108.7	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.19	104.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				

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

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LCS1	1,1,2,2-Tetrachloroethane	4	4.47	111.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.53	113.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.28	107.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.37	109.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.57	114.2	(70.00 - 130.00)	4.5
LCS1	1,1-Dichloropropene	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.38	109.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.50	112.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.45	111.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.44	111.0	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.52	113.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.45	111.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.25	106.2	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.23	105.8	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	47.0	117.5	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.09	102.2	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

LCS1	p-Chlorotoluene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	48.6	121.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03100353		(0.00 - 0.00)	
LCS1	Benzene	4	4.45	111.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.55	113.8	(70.00 - 130.00)	
MSD	Benzene	4	4.54	113.5	(70.00 - 130.00)	0.22
LCS1	Bromobenzene	4	4.32	108.0	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.23	111.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.44	111.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.40	110.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.45	111.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.39	109.7	(70.00 - 130.00)	1.4
LCS1	Carbon Tetrachloride	4	4.33	108.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.27	81.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.23	105.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.70	117.5	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.01	100.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.81	90.5	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.41	110.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.42	110.5	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.38	109.5	(70.00 - 116.00)	

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(continued)

MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.41	110.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.26	106.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	2.05	102.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.18	109.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.11	102.8	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	4.21	105.2	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.29	107.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.78	109.7	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	4.56	114.0	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.19	104.8	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.31	107.7	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.41	110.2	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.24	106.0	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.26	106.5	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	4.12	103.0	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	4.19	104.8	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	4.70	117.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 127.00)
MBLK	1,2-dichloroethane-d4	100	99	99.0	

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(continued)

MS	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	2.8
LCS1	Toluene-d8	100	104	104.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	100	100.0		
MS	Toluene-d8	100	104	104.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	1.9
LCS1	4-Bromofluorobenzene	100	103	103.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	99	99.0		
MS	4-Bromofluorobenzene	100	101	101.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	99	99.0	(86.00 - 115.00)	2.0
LCS1	trans-1,2-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.31	107.7	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.72	118.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.79	119.8	(70.00 - 130.00)	1.5
LCS1	Trichlorotrifluoroethane(Freon	2	2.14	107.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.31	107.7	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.43	110.8	(70.00 - 130.00)	
MSD	Toluene	4	4.34	108.5	(70.00 - 130.00)	2.1
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112929 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130416		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	94	94.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(77.00 - 119.00)	

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Foster Wheeler Environmental, Inc
(continued)

MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	2.1

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

MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 7, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 63845 (MW-001-076, MW-001-075, MW-001-033, MW-001-034, MW-001-035, MW-001-036)

Sampled: 03/13/00

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)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
Chloroform was detected in MW-001-075, 033, 034, 035, 036
Tetrachloroethylene was detected in MW-001-034
Trichloroethylene was detected in MW-001-033, 034, 035
Perchlorate was detected in MW-001-033, 034, 035
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

NUMBER 1662

63845

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0304

PROJECT ADDRESS: 4800 Oak Grove Pasadena, CA

SAMPLER (Name): M. Hunt / V. Richards

SAMPLER (Signature): Matthew T. Hunt

LABORATORY: Montgomery Watson Labs

REPORTS TO BE SENT TO: Mark Cutler

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

TIME REQUIRED: NORMAL ☒ ____ DAYS; RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total Cr	Cr +6	ClO4-	MS for VOCs	MSD for VOCs	MS/MSD Total Cr	QC for Cr +6		
MW-001-076	1000	3-13-00	2	2 x 40 ml	X			X									
MW-001-075	1020	3-13-00	5	2 x 40 ml, 3 x 125 ml	X			X	X	X	X						
MW-001-033	1130	3-13-00	3	2 x 40 ml, 1 x 125 ml	X			X	[redacted]	[redacted]	X						
MW-001-034	1200	3-13-00	5	5 x 40 ml, 3 x 125 ml	X			X	X	X	X						
MW-001-035	1400	↓	5	2 x 40 ml (1x250 ml), 2 x 125 ml	X			X	X	X	X			X			
MW-001-036	1445		5	2 x 40 ml, 3 x 125 ml	X			X	X	X	X				X		
MW-001-035MS	1400		2	2 x 40 ml	X							X					
MW-001-035MSD	1400		2	2 x 40 ml	X								X				

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	3-17-00	[signature]			
COMPANY: FWEC	TIME: 1000	COMPANY: M.W.	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH (FOSTER WHEELER) DATE RECEIVED: 3-13-00

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 3-13-00
By (print) MARTIN L. DE MESA (sign) [illegible]

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: DELIVERED BY CLIENT

2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 OUTSIDE LID
If yes, enter the following: seal date: 3-13-00 seal name: MLH

3. Were custody seals unbroken and intact at delivery? Yes No

4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 3-13-00

B. LOGIN PHASE
Date samples were logged in: 3-13-00
By (print) M. DE MESA (sign) [illegible]

9. Describe packing: _____

10. If required, was enough ice used? Yes No REG ICE TEMP 6°C

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

12. Did all bottles arrive unbroken and in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. Yes No

15. Were correct containers used 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? If no, list by sample ID on back. Yes No

19. Was Client Services informed of problems? Yes No

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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

MONTGOMERY WATSON LABS.
SUBMITTED ON
MAR 31 2000

DEB* Debbie Frank

Report#: 63845
JPL

MONTGOMERY WATSON LABORATORIES
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Laboratory
Report
#63845

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

Samples Received
13-mar-2000 15:55:00

MW-001-076 (2003130411) Sampled on 03/13/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(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	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-075 (2003130412) Sampled on 03/13/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/13/20	112209	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #63845

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory Report #63845

Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-033 (2003130413) Sampled on 03/13/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	15	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	8.8	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory Report #63845

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-034 (2003130414) Sampled on 03/13/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	15	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/13/20	112209	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(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	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	9.9	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-035 (2003130416) Sampled on 03/13/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	5.0	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/13/20	112209	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(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	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.6	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.9	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	84	% Rec		
			(Surrogate)	4-Bromofluorobenzene	108	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-036 (2003130423) Sampled on 03/13/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/13/20	112209	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#63845

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Laboratory
QC Summary Report
#63845

Foster Wheeler Environmental, Inc

QC Batch #112209 - Hexavalent chromium (Cr VI) Analysis Date: 03/13/2020

2003130412	MW-001-075
2003130414	MW-001-034
2003130416	MW-001-035
2003130423	MW-001-036

QC Batch #112657 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/18/2000

2003130411	MW-001-076
2003130412	MW-001-075
2003130413	MW-001-033
2003130414	MW-001-034
2003130416	MW-001-035
2003130423	MW-001-036

QC Batch #112747 - Perchlorate Analysis Date: 03/23/2000

2003130412	MW-001-075
2003130413	MW-001-033
2003130414	MW-001-034
2003130416	MW-001-035
2003130423	MW-001-036

QC Batch #112929 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003130412	MW-001-075
2003130414	MW-001-034
2003130416	MW-001-035
2003130423	MW-001-036

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555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#63845

Foster Wheeler Environmental, Inc

QC Batch #112209 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	2.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	

QC Batch #112657 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.13	103.2	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.09	102.2	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.23	105.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.27	106.7	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.17	104.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.09	102.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.77	94.2	(70.00 - 130.00)	8.1
LCS1	1,1-Dichloropropene	4	4.32	108.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.01	100.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.25	106.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.13	103.2	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				

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

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(continued)

LCS1	1,2-Dichloropropane	4	4.35	108.7	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.04	101.0	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.20	105.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.95	98.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.27	106.7	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	42.3	105.7	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.97	99.2	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	44.2	110.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03140483		(0.00 - 0.00)	
LCS1	Benzene	4	4.31	107.7	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.10	102.5	(70.00 - 130.00)	
MSD	Benzene	4	4.24	106.0	(70.00 - 130.00)	3.4
LCS1	Bromobenzene	4	3.87	96.8	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.80	90.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.44	111.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.19	104.8	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.18	104.5	(70.00 - 130.00)	4.4
LCS1	Carbon Tetrachloride	4	4.16	104.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				

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(continued)

LCS1	Bromoform	4	3.22	80.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	4.10	102.5	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	4.08	102.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	2.07	103.5	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane(Methyl Chloride)	2	1.89	94.5	(70.00 - 130.00)
MBLK	Chloromethane(Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	4.32	108.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	4.22	105.5	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	4.09	102.2	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.39	84.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.12	103.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.81	90.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.05	102.5	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.26	106.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	4.04	101.0	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.90	97.5	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.54	106.7	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	4.28	107.0	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.43	110.8	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.14	103.5	(70.00 - 130.00)

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(continued)

MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.19	104.8	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.12	103.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.03	100.8	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.07	101.8	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	98	98.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	103	103.0		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	0.00
LCS1	Toluene-d8	100	99	99.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	99	99.0		
MS	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	104	104.0	(91.00 - 107.00)	2.9
LCS1	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	101	101.0		
MS	4-Bromofluorobenzene	100	100	100.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	102	102.0	(86.00 - 115.00)	2.0
LCS1	trans-1,2-Dichloroethylene	4	4.51	112.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.17	104.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.01	100.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.06	101.5	(70.00 - 130.00)	1.2
LCS1	Trichlorotrifluoroethane(Freon	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.23	105.8	(74.00 - 117.00)	

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Toluene	ND				
MS	Toluene	4	4.08	102.0	(70.00 - 130.00)	
MSD	Toluene	4	4.25	106.2	(70.00 - 130.00)	4.1
LCS1	Vinyl chloride (VC)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112747 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130412		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	2.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.0	100.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	3.0

QC Batch #112929 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130416		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	94	94.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	2.1

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MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 7, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 63869 (MW-001-061, MW-001-078, MW-001-062, MW-001-063, MW-001-064, MW-001-065, MW-001-066, MW-001-077)

Sampled: 03/14/00

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)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
Carbon Tetrachloride was detected in MW-001-064, 065
Chloroform was detected in MW-001-77, 064, 065
Tetrachloroethylene was detected in MW-001-064, 065
Trichloroethylene was detected in MW-001-064, 065
Perchlorate was detected in MW-001-064, 065
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

NUMBER 1663

63869

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0304

PROJECT ADDRESS: 4800 Oak Grove Drive Pasadena, CA

SAMPLER (Name): Mathew L. Hunt

SAMPLER (Signature): Mathew L. Hunt

LABORATORY: Montgomery Watson Lab

REPORTS TO BE SENT TO: Mr. Mark Cutler

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

TIME REQUIRED: NORMAL ☒ ____ DAYS; RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Cr Tot	Cr 6+	ClO_4^-	MS for VOCs	MSD for VOCs	MS/MSD for Cr Tot	QC for Cr 6+		
MW-001-061	0945	3/14/00	2	2 x 40 ml	X				X	X					X		
MW-001-062	0945	3/14/00	2	2 x 40 ml	X			X									
MW-001-062	1005	3/14/00	2	2 x 125 ml	X				X	X							
MW-001-063	1055	3/14/00	5	2 x 40 ml, 2 x 125 ml	X			X	X	X	X	~~X~~	~~X~~				
MW-001-064	1140	3/14/00	5	2x40, 3x125ml	X			X	X	X	X						
MW-001-065	1145	3/14/00	5	2x40ml, 3x125ml	X			X	X	X	X						
MW-001-066	1240	3/14/00	5	2x40ml 3x125ml	X			X	X	X	X						
MW-001-063MS	1055	3/14/00	2	2x40ml	X							X					
MW-001-063MSD	1055	3/14/00	2	2x40ml	X								X				
MW-001-077	1125	3-14-00	5					*	*	*	*	——— REC SAMPLE					

LABORATORY INSTRUCTIONS/COMMENTS

* ID ON SAMPLE STATES "MW-001-061"

Level IV QA/QC

LOGGED IN SAMPLE ID ON COC.

** ID ON COC IS CORRECT FOR MW-001-078

MLD 3/15/00 1612

** NO COC SEAL'S ON COOLER. MLD 3/15/00 1612

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
V. [illegible]	3-14-00	N Rodriguez			
COMPANY: FWEC	TIME: 1413	COMPANY: MWL 3/14/00	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH (FOSTER WHEELER) DATE RECEIVED: 3-14-00

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 3-14-00
By (print) MARTIN L. DE MESA (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: DELIVERED BY CLIENT

2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: _____
If yes, enter the following: seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at delivery? Yes No N/A

4. Were custody papers sealed in bag and 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 and acknowledge receipt: _____ date: _____

B. LOGIN PHASE
Date samples were logged in: 3-14-00
By (print) M. 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 and in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. Yes No - SEE COC

15. Were correct containers used 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? If no, list by sample ID on back. Yes No

19. Was Client Services informed of problems? Yes No

MADE COPY OF COC FOR DEB

Contacted M. Hunt 3/14/00 he approved and confirmed LOGIN per more annotations on COC from his field records. [initials] 3/15/00.

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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

MONTGOMERY WATSON LABS.
SUBMITTED ON
MAR 31 2000

DEB* Debbie Frank

Report#: 63869
JPL

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Laboratory
Report
#63869

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

Samples Received
14-mar-2000 14:13:00

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-061 (2003140480) Sampled on 03/14/00								
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/14/00	112277	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
MW-001-078 (2003140481) Sampled on 03/14/00								
				Regulated VOCs plus Lists 1&3				
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		
MW-001-062 (2003140482) Sampled on 03/14/00								
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/14/00	112277	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
MW-001-063 (2003140483) Sampled on 03/14/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/14/00	112277	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		
MW-001-064 (2003140484) Sampled on 03/14/00								
	03/23/00	**112747**	**(CADHS/EPA314)**	**Perchlorate**	**32**	**ug/l**	**4.0**	**1**
03/27/00	**03/28/00**	**112929**	**(EPA/ML 200.8)**	**Chromium, Total, ICAP/MS**	**ND**	**ug/l**	**10**	**1**
	03/14/00	**112277**	**(ML/SW 7196)**	**Hexavalent chromium (Cr VI)**	**ND**	**mg/l**	**0.005**	**1**
			Regulated VOCs plus Lists 1&3					
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	1.4	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.7	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.9	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		
MW-001-065 (2003140485) Sampled on 03/14/00								
	03/23/00	**112747**	**(CADHS/EPA314)**	**Perchlorate**	**33**	**ug/l**	**4.0**	**1**
03/27/00	**03/28/00**	**112929**	**(EPA/ML 200.8)**	**Chromium, Total, ICAP/MS**	**ND**	**ug/l**	**10**	**1**
	03/14/00	**112277**	**(ML/SW 7196)**	**Hexavalent chromium (Cr VI)**	**ND**	**mg/l**	**0.005**	**1**
			Regulated VOCs plus Lists 1&3					
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	1.4	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.6	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.6	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-001-066 (2003140486) Sampled on 03/14/00

	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/14/00	112277	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1

Regulated VOCs plus Lists 1&3

	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	83	% Rec		
MW-001-077 (2003140487) Sampled on 03/14/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/14/00	112277	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/18/00	112657	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/18/00	112657	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/18/00	112657	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/18/00	112657	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	88	% Rec		

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Laboratory
QC Summary Report
#63869

Foster Wheeler Environmental, Inc

QC Batch #112277 - Hexavalent chromium (Cr VI) Analysis Date: 03/14/2000

2003140480	MW-001-061
2003140482	MW-001-062
2003140483	MW-001-063
2003140484	MW-001-064
2003140485	MW-001-065
2003140486	MW-001-066
2003140487	MW-001-077

QC Batch #112657 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/18/2000

2003140481	MW-001-078
2003140483	MW-001-063
2003140484	MW-001-064
2003140485	MW-001-065
2003140486	MW-001-066
2003140487	MW-001-077

QC Batch #112747 - Perchlorate Analysis Date: 03/23/2000

2003140483	MW-001-063
2003140484	MW-001-064
2003140485	MW-001-065
2003140486	MW-001-066
2003140487	MW-001-077

QC Batch #112929 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003140480	MW-001-061
2003140482	MW-001-062
2003140483	MW-001-063
2003140484	MW-001-064
2003140485	MW-001-065
2003140486	MW-001-066
2003140487	MW-001-077

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Laboratory
QC Report
#63869

Foster Wheeler Environmental, Inc

QC Batch #112277 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	

QC Batch #112657 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.13	103.2	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.09	102.2	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.23	105.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.27	106.7	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.17	104.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.09	102.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.77	94.2	(70.00 - 130.00)	8.1
LCS1	1,1-Dichloropropene	4	4.32	108.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.01	100.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.25	106.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.13	103.2	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				

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

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QC Report
#63869

Foster Wheeler Environmental, Inc
(continued)

LCS1	1,2-Dichloropropane	4	4.35	108.7	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.04	101.0	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.20	105.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.95	98.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.27	106.7	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	42.3	105.7	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.97	99.2	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	44.2	110.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03140483		(0.00 - 0.00)	
LCS1	Benzene	4	4.31	107.7	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.10	102.5	(70.00 - 130.00)	
MSD	Benzene	4	4.24	106.0	(70.00 - 130.00)	3.4
LCS1	Bromobenzene	4	3.87	96.8	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.80	90.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.44	111.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.19	104.8	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.18	104.5	(70.00 - 130.00)	4.4
LCS1	Carbon Tetrachloride	4	4.16	104.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				

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LCS1	Bromoform	4	3.22	80.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	4.10	102.5	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	4.08	102.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	2.07	103.5	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane(Methyl Chloride)	2	1.89	94.5	(70.00 - 130.00)
MBLK	Chloromethane(Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	4.32	108.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	4.22	105.5	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	4.09	102.2	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.39	84.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.12	103.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.81	90.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.05	102.5	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.26	106.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	4.04	101.0	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.90	97.5	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.54	106.7	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	4.28	107.0	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.43	110.8	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.14	103.5	(70.00 - 130.00)

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MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.19	104.8	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.12	103.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.03	100.8	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.07	101.8	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	98	98.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	103	103.0		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	0.00
LCS1	Toluene-d8	100	99	99.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	99	99.0		
MS	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	104	104.0	(91.00 - 107.00)	2.9
LCS1	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	101	101.0		
MS	4-Bromofluorobenzene	100	100	100.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	102	102.0	(86.00 - 115.00)	2.0
LCS1	trans-1,2-Dichloroethylene	4	4.51	112.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.17	104.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.01	100.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.06	101.5	(70.00 - 130.00)	1.2
LCS1	Trichlorotrifluoroethane(Freon	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.23	105.8	(74.00 - 117.00)	

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(continued)

MBLK	Toluene	ND				
MS	Toluene	4	4.08	102.0	(70.00 - 130.00)	
MSD	Toluene	4	4.25	106.2	(70.00 - 130.00)	4.1
LCS1	Vinyl chloride (VC)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112747 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130412		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	2.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.0	100.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	3.0

QC Batch #112929 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130416		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	94	94.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	2.1

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Quality Environmental Analysis

April 7, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 63931 (MW-001-051, MW-001-079, MW-001-080, MW-001-052, MW-001-053, MW-001-054)

Sampled: 03/15/00

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)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
Carbon Tetrachloride was detected in MW-001-052, 053
Chloroform was detected in MW-001-051, 079, 052, 053
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

NU R 3497

63931

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0304

PROJECT ADDRESS: 4800 Oak Grove Dr. Pasadena, CA

SAMPLER (Name): Mathew L. Hunt

SAMPLER (Signature): Mathew L. Hunt

LABORATORY: Montgomery Watson Lab.

REPORTS TO BE SENT TO: Mr. Mark Cutler

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

TIME REQUIRED: NORMAL ☒ ___ DAYS; RUSH ☐ ___ DAYS

ANALYSES REQUIRED:

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs 1624	Cr Tot.	Cr 6+	ClO_4^-	MS for VOCs	MSD for VOCs	MS/MSD for CRTs	QC for Cr 6+		
MW-001-051	1010	3/15/00	2	2 x 40 ml.	X			X									
MW-001-079	1030	3/15/00	5	2 x 40 ml. 3 x 125 ml.	X			X	X	X	X						
MW-001-080	1045	3/15/00	2	2 x 40 ml	X			X									
MW-001-052 MS	1100	3/15/00	2	2 x 40 ml.	X			X	(MS/H)			X					
MW-001-052 MSD	1100	3/15/00	2	2 x 40 ml	X			X					X				
MW-001-052	1100	3/15/00	5	2 x 40 ml. 2 x 125 ml 250 ml	X			X	X	X	X			X			
MW-001-053	1220	3/15/00	5	2 x 40 ml 3 x 125 ml.	X			X	X	X	X						
MW001-054	1300	3/15/00	5	2 x 40 ml. 3 x 125 ml.	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)
Mathew L. Hunt	3-15-00				
COMPANY: Foster Wheeler	TIME: 1607	COMPANY:	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 03-15-2000

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 03-15-2000
By (print) Nancy Rodriguez (sign) NR

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
If yes, attach and enter carrier and air bill number here: DEL BY CLIENT

2. Were custody seals on outside of cooler? (Yes) No
If yes, how many and where: 2 on top of lift
If yes, enter the following: seal date: 03-15-00 seal name: JAD

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

4. Were custody papers sealed in bag and 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 and acknowledge receipt: NR date: 3-15-00

B. LOGIN PHASE
Date samples were logged in: _____
By (print) _____ (sign) _____

9. Describe packing: _____

10. If required, was enough ice used? (Yes) No REG ICE 8°C

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

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

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. (Yes) No

15. Were correct containers used 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? If no, list by sample ID on back. (Yes) No

19. Was Client Services informed of problems? Yes No

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

MONTGOMERY WATSON LABS.
SUBMITTED ON
MAR 31 2000

DEB* Debbie Frank

Report#: 63931
JPL

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Laboratory Report #63931

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

Samples Received
15-mar-2000 16:07:00

MW-001-051 (2003150150) Sampled on 03/15/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #63931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-079 (2003150151) Sampled on 03/15/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/15/00	112360	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/22/00	112866	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #63931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory
Report
#63931

Foster Wheeler Environmental, Inc
(continued)

MW-001-080 (2003150152) Sampled on 03/15/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-052 (2003150153) Sampled on 03/15/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/15/00	112360	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/22/00	112866	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Carbon Tetrachloride	2.4	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(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	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-053 (2003150154) Sampled on 03/15/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/15/00	112360	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/22/00	112866	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Carbon Tetrachloride	0.8	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(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	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.7	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	83	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-054 (2003150155) Sampled on 03/15/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112929	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/15/00	112360	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/22/00	112866	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112866	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(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	MRL	Dilution
	03/22/00	112866	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112866	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	89	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Laboratory
QC Summary Report
#63931

Foster Wheeler Environmental, Inc

QC Batch #112360 - Hexavalent chromium (Cr VI) Analysis Date: 03/15/2000

2003150151	MW-001-079
2003150153	MW-001-052
2003150154	MW-001-053
2003150155	MW-001-054

QC Batch #112747 - Perchlorate Analysis Date: 03/23/2000

2003150151	MW-001-079
2003150153	MW-001-052
2003150154	MW-001-053
2003150155	MW-001-054

QC Batch #112866 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/22/2000

2003150150	MW-001-051
2003150151	MW-001-079
2003150152	MW-001-080
2003150153	MW-001-052
2003150154	MW-001-053
2003150155	MW-001-054

QC Batch #112929 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003150151	MW-001-079
2003150153	MW-001-052
2003150154	MW-001-053
2003150155	MW-001-054

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QC Report
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Foster Wheeler Environmental, Inc

QC Batch #112360 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	

QC Batch #112747 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130412		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	2.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.0	100.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	3.0

QC Batch #112866 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.15	103.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.52	88.0	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.91	97.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.26	106.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.09	102.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.77	94.2	(70.00 - 130.00)	8.1
LCS1	1,1-Dichloropropene	4	4.12	103.0	(70.00 - 130.00)	

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MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.35	108.7	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.38	109.5	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.32	108.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.18	104.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	40.2	100.5	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.72	93.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.3	103.2	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03140483		(0.00 - 0.00)	
LCS1	Benzene	4	4.26	106.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.10	102.5	(70.00 - 130.00)	
MSD	Benzene	4	4.24	106.0	(70.00 - 130.00)	3.4
LCS1	Bromobenzene	4	3.77	94.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

LCS1	Bromomethane (Methyl Bromide)	2	1.94	97.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.37	109.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.15	103.8	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.18	104.5	(70.00 - 130.00)	4.4
LCS1	Carbon Tetrachloride	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.75	93.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.15	103.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.97	99.2	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.71	85.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.89	94.5	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.17	104.2	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.16	104.0	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.94	123.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.05	101.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.58	79.0	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.86	93.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				

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LCS1	Isopropylbenzene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.68	92.0	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.16	102.0	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.21	105.2	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.08	102.0	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.08	102.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.96	99.0	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.63	90.8	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.07	101.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	113	113.0		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	0.00
LCS1	Toluene-d8	100	100	100.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	103	103.0		
MS	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	104	104.0	(91.00 - 107.00)	2.9
LCS1	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	90	90.0		
MS	4-Bromofluorobenzene	100	100	100.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	102	102.0	(86.00 - 115.00)	2.0
LCS1	trans-1,2-Dichloroethylene	4	4.29	107.2	(70.00 - 130.00)	

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MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.01	100.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.01	100.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.06	101.5	(70.00 - 130.00)	1.2
LCS1	Trichlorotrifluoroethane(Freon	2	2.08	104.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.14	103.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.08	102.0	(70.00 - 130.00)	
MSD	Toluene	4	4.25	106.2	(70.00 - 130.00)	4.1
LCS1	Vinyl chloride (VC)	2	1.74	87.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112929 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130416		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	94	94.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	1.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	2.1

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

MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

April 14, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 63963 (MW-001-082, MW-001-081, MW-001-045, MW-001-046, MW-001-047, MW-001-049, MW-001-048, MW-001-050)

Sampled: 03/16/00

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)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
Carbon Tetrachloride was detected in MW-001-045, 046, 047
Chloroform was detected in MW-001-081, 045, 046, 047
Trichloroethylene was detected in MW-001-046
Perchlorate was detected in MW-001-045, 046, 047
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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

Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

63962 M
63963

TEMP: 12°C
ICE: FRN
SAMPLED SAME DAY.

N ER 3498

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL
OFS NO.: 1572.0304
PROJECT ADDRESS: 4800 Oak Grove Dr. Pasadena, CA
SAMPLER (Name): Mathew L. Hunt
SAMPLER (Signature): Mathew L. Hunt
LABORATORY: Montgomery Watson Lab
REPORTS TO BE SENT TO: Mr. Mark Cutler

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

TIME REQUIRED: NORMAL ☒ ____ DAYS; RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Cr tot	Cr +6	Cl Cy	MS for VOCs	MSD for VOCs	MS/MSD for Cr tot	QC for Cr +6		
MW-001-082	0805	3-16-00	2	2 x 40 ml	X			X									
MW-001-081	0830	3-16-00	5	2 x 40 ml, 3 x 125 ml	X			X	X	X	X						
MW-001-045	0915	3-16-00	3	2 x 40 ml, 1 x 125 ml	X			X			X						
MW-001-046	1000	3-16-00	3	2 x 40 ml, 1 x 125 ml	X			X			X						
MW-001-047MS	1050	3-16-00	2	2 x 40 ml	X							X					
MW-001-047MSD	1050	3-16-00	2	2 x 40 ml	X								X				
MW-001-047	1050	3-16-00	5	2 x 40 ml, 2 x 125 ml, 1 x 250 ml	X			X	X	X	X			X			
MW-001-049	1140	3-16-00	5	2 x 40 ml, 3 x 125 ml	X			X	X	X	X						
MW-001-048	1145	3-16-00	5	2 x 40 ml, 3 x 125 ml	X			X	X	X	X						
MW-001-050	1350	3-16-00	5	2 x 40 ml, 3 x 125 ml	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)
[signature]	3-16-00	[signature]			
COMPANY: FWEC	TIME: 1500	COMPANY: NVIL	COMPANY	TIME	COMPANY

F-2

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 03-16-00

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: 03-16-00
by (print) MIKE CHIHANG (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 OUTSIDE ON LID
   If Yes, enter the following: seal date: 3-16-00, seal name: MLH

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: ML (date) 3-16-00

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
(print) _____ (sign) _____

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**

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 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

MONTGOMERY WATSON LABS.
SUBMITTED ON
APR 14 2000
DEB* Debbie Frank

Report#: 63963
JPL

MONTGOMERY WATSON LABORATORIES
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Pasadena, California 91101
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1 800 566 LABS (1 800 566 5227)

Laboratory Report #63963

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

Samples Received
16-mar-2000 15:00:00

MW-001-082 (2003160102) Sampled on 03/16/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Pasadena, California 91101
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1 800 566 LABS (1 800 566 5227)

Laboratory Report #63963

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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555 East Walnut Street
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1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-081 (2003160103) Sampled on 03/16/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/00	112404	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-045 (2003160104) Sampled on 03/16/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	4.7	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	2.0	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	88	% Rec		
			(Surrogate)	Toluene-d8	106	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-046 (2003160105) Sampled on 03/16/00								
	03/23/00	**112747**	**(CADHS/EPA314)**	**Perchlorate**	**8.7**	**ug/l**	**4.0**	**1**
			Regulated VOCs plus Lists 1&3					
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	5.3	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.3	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.5	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-047 (2003160106) Sampled on 03/16/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	8.2	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/00	112404	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	17	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-049 (2003160107) Sampled on 03/16/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/00	112404	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-048 (2003160108) Sampled on 03/16/00								
	03/23/00	112747	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/00	112404	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-050 (2003160109) Sampled on 03/16/00								
	03/23/00	112748	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/00	112404	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	87	% Rec		

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Laboratory
QC Summary Report
#63963

Foster Wheeler Environmental, Inc

QC Batch #112404 - Hexavalent chromium (Cr VI) Analysis Date: 03/16/2000

2003160103	MW-001-081
2003160106	MW-001-047
2003160107	MW-001-049
2003160108	MW-001-048
2003160109	MW-001-050

QC Batch #112747 - Perchlorate Analysis Date: 03/23/2000

2003160103	MW-001-081
2003160104	MW-001-045
2003160105	MW-001-046
2003160106	MW-001-047
2003160107	MW-001-049
2003160108	MW-001-048

QC Batch #112748 - Perchlorate Analysis Date: 03/23/2000

2003160109	MW-001-050

QC Batch #112874 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/22/2000

2003160102	MW-001-082
2003160103	MW-001-081
2003160104	MW-001-045
2003160105	MW-001-046
2003160106	MW-001-047
2003160107	MW-001-049
2003160108	MW-001-048
2003160109	MW-001-050

QC Batch #112951 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003160103	MW-001-081
2003160106	MW-001-047
2003160107	MW-001-049
2003160108	MW-001-048
2003160109	MW-001-050

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QC Report
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Foster Wheeler Environmental, Inc

QC Batch #112404 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	2.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.048	96.0	(80.00 - 120.00)	

QC Batch #112747 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03130412		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	2.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.0	100.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	3.0

QC Batch #112748 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03160109		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	4.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.0	115.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	22.5	112.5	(75.00 - 125.00)	2.2

QC Batch #112874 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.15	103.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				

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Foster Wheeler Environmental, Inc
(continued)

LCS1	1,1,2,2-Tetrachloroethane	4	3.52	88.0	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.91	97.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.26	106.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.37	109.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.78	94.5	(70.00 - 130.00)	14
LCS1	1,1-Dichloropropene	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.35	108.7	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.38	109.5	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.32	108.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.18	104.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	40.2	100.5	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.72	93.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				

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LCS1	p-Chlorotoluene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.3	103.2	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03210210		(0.00 - 0.00)	
LCS1	Benzene	4	4.26	106.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.44	111.0	(70.00 - 130.00)	
MSD	Benzene	4	4.42	110.5	(70.00 - 130.00)	0.45
LCS1	Bromobenzene	4	3.77	94.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.94	97.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.37	109.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.15	103.8	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.63	115.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.53	113.2	(70.00 - 130.00)	2.2
LCS1	Carbon Tetrachloride	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.75	93.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.15	103.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.97	99.2	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.71	85.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.89	94.5	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.17	104.2	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.16	104.0	(70.00 - 116.00)	

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MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.94	123.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.05	101.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.58	79.0	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.86	93.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.24	106.0	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.66	91.5	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.68	92.0	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.16	102.0	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.81	95.2	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.21	105.2	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.08	102.0	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.08	102.0	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.96	99.0	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	3.63	90.8	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	3.69	92.2	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	4.07	101.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 127.00)
MBLK	1,2-dichloroethane-d4	100	113	113.0	

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MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	2.8
LCS1	Toluene-d8	100	100	100.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	103	103.0		
MS	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	101	101.0	(91.00 - 107.00)	0.99
LCS1	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	90	90.0		
MS	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	5.3
LCS1	trans-1,2-Dichloroethylene	4	4.29	107.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.01	100.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.56	114.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.52	113.0	(70.00 - 130.00)	0.88
LCS1	Trichlorotrifluoroethane(Freon	2	2.08	104.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.14	103.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.51	112.8	(70.00 - 130.00)	
MSD	Toluene	4	4.46	111.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	2	1.74	87.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112951 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03160106		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	96	96.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	92	92.0	(77.00 - 119.00)	

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Foster Wheeler Environmental, Inc
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MSD	Chromium, Total, ICAP/MS	100	96	96.0	(77.00 - 119.00)	4.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

April 14, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 64037 (MW-001-084, MW-001-010, MW-001-083, MW-001-011, MW-001-012, MW-001-013)

Sampled: 03/17/00

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)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
1,1-Dichloroethane was detected in MW-001-013
Chloroform was detected in MW-001-083
Tetrachloroethylene was detected in MW-001-013
Perchlorate was detected in MW-001-013
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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

Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

NUMBER 2606

64037

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: ~~W494~~ 1572.0304

PROJECT ADDRESS: 4800 OAK GROVE DRIVE, PAS. CA.

SAMPLER (Name): M. HUNT

SAMPLER (Signature): Matthew J. Hunt

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOC's (524.2)	Cr TOTAL	Cr +6	Cl Dy	MS for VOC's	MSD for VOC's	MS/MSD for Cr TOT	QC for Cr +6		
MW-001-084	0946	3-17-00	2	2x 40ml	X			X									
MW-001-010	1000	3-17-00	1	1x 125ml	X						X						
MW-001-083	1020	3-17-00	5	2x40ml 3x125ml	X			X	X	X	X						
MW-001-011	1050	3-17-00	3	2x40ml 1x125ml	X			X			X						
MW-001-012MS	1135	3-17-00	2	2x40ml	X							X					
MW-001-012MSD	1135	3-17-00	2	2x 40ml	X								X				
MW-001-012	1135	3-17-00	5	2x 40ml 3x 125ml	X			X	X	X	X						
MW-001-013	1300	3-17-00	5	2x40ml 2x125ml, 1x250ml	X			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)
[signature]	3-17-00	[signature]			
COMPANY: FWEC	TIME: 1114	COMPANY: MWH	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-17-00

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: 3-17-00

by (print) MIKE CHWANG (sign) [illegible]

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 OUTSIDE OF COOLER ~~on~~
   If Yes, enter the following: seal date: 3-17-00, seal name: MLH

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: ML (date) 3-17-00

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
   (print) _____ (sign) _____

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**

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 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

MONTGOMERY WATSON LABS.
SUBMITTED ON
MAR 31 2000

DEB* Debbie Frank

Report#: 64037
JPL

MONTGOMERY WATSON LABORATORIES
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Laboratory
Report
#64037

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

Samples Received
17-mar-2000 14:45:00

MW-001-084 (2003170151) Sampled on 03/17/00

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #64037

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-010 (2003170152) Sampled on 03/17/00								
	03/23/00	112748	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
MW-001-083 (2003170153) Sampled on 03/17/00								
	03/23/00	112748	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/00	112476	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	03/23/00	112876	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/23/00	112876	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/23/00	112876	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	03/23/00	112876	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/23/00	112876	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	93	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	108	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		
MW-001-011 (2003170154) Sampled on 03/17/00								
	03/23/00	112748	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Regulated VOCs plus Lists 1&3					
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-012 (2003170155) Sampled on 03/17/00								
	03/23/00	112748	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/00	112476	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-001-013 (2003170156) Sampled on 03/17/00								
	03/23/00	112748	(CADHS/EPA314)	Perchlorate	4.3	ug/l	4.0	1
03/27/00	03/28/00	112951	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/00	112476	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	03/22/00	112874	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethane	0.7	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/22/00	112874	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(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	MRL	Dilution
	03/22/00	112874	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	3.1	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/22/00	112874	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Laboratory
QC Summary Report
#64037

Foster Wheeler Environmental, Inc

QC Batch #112476 - Hexavalent chromium (Cr VI) Analysis Date: 03/17/2000

2003170153	MW-001-083
2003170155	MW-001-012
2003170156	MW-001-013

QC Batch #112748 - Perchlorate Analysis Date: 03/23/2000

2003170152	MW-001-010
2003170153	MW-001-083
2003170154	MW-001-011
2003170155	MW-001-012
2003170156	MW-001-013

QC Batch #112874 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/22/2000

2003170151	MW-001-084
2003170154	MW-001-011
2003170155	MW-001-012
2003170156	MW-001-013

QC Batch #112876 - Regulated VOCs plus Lists 1&3 Analysis Date: 03/23/2000

2003170153	MW-001-083

QC Batch #112951 - Chromium, Total, ICAP/MS Analysis Date: 03/28/2000

2003170153	MW-001-083
2003170155	MW-001-012
2003170156	MW-001-013

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Laboratory
QC Report
#64037

Foster Wheeler Environmental, Inc

QC Batch #112476 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS-	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	
MSD-	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	

QC Batch #112748 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03160109		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	4.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.0	115.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	22.5	112.5	(75.00 - 125.00)	2.2

QC Batch #112874 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.15	103.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.52	88.0	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.91	97.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.26	106.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.37	109.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.78	94.5	(70.00 - 130.00)	14
LCS1	1,1-Dichloropropene	4	4.12	103.0	(70.00 - 130.00)	

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MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.35	108.7	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.38	109.5	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.32	108.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.18	104.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	40.2	100.5	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.72	93.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.3	103.2	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03210210		(0.00 - 0.00)	
LCS1	Benzene	4	4.26	106.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.44	111.0	(70.00 - 130.00)	
MSD	Benzene	4	4.42	110.5	(70.00 - 130.00)	0.45
LCS1	Bromobenzene	4	3.77	94.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

LCS1	Bromomethane (Methyl Bromide)	2	1.94	97.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.37	109.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.15	103.8	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.63	115.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.53	113.2	(70.00 - 130.00)	2.2
LCS1	Carbon Tetrachloride	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.75	93.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.15	103.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.97	99.2	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.71	85.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.89	94.5	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.17	104.2	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.16	104.0	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.94	123.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.05	101.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.58	79.0	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.86	93.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				

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LCS1	Isopropylbenzene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.68	92.0	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.16	102.0	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.21	105.2	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.08	102.0	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.08	102.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.96	99.0	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.63	90.8	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.07	101.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	113	113.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	2.8
LCS1	Toluene-d8	100	100	100.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	103	103.0		
MS	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	101	101.0	(91.00 - 107.00)	0.99
LCS1	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	90	90.0		
MS	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	5.3
LCS1	trans-1,2-Dichloroethylene	4	4.29	107.2	(70.00 - 130.00)	

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(continued)

MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.01	100.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.56	114.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.52	113.0	(70.00 - 130.00)	0.88
LCS1	Trichlorotrifluoroethane(Freon	2	2.08	104.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.14	103.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.51	112.8	(70.00 - 130.00)	
MSD	Toluene	4	4.46	111.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	2	1.74	87.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112876 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.11	102.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.84	96.0	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.78	94.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.12	103.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.36	109.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.37	109.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.78	94.5	(70.00 - 130.00)	14
LCS1	1,1-Dichloropropene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				

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LCS1	1,2,3-Trichlorobenzene	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.92	98.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.50	112.5	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.26	106.5	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.26	106.5	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.20	105.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.06	101.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.14	103.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.22	105.5	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	36.4	91.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.18	104.5	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	4.14	103.5	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	38.7	96.8	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	03210210		(0.00 - 0.00)	
LCS1	Benzene	4	4.22	105.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.44	111.0	(70.00 - 130.00)	
MSD	Benzene	4	4.42	110.5	(70.00 - 130.00)	0.45
LCS1	Bromobenzene	4	4.34	108.5	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.69	84.5	(70.00 - 130.00)	

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MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.31	107.7	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.21	105.2	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.63	115.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.53	113.2	(70.00 - 130.00)	2.2
LCS1	Carbon Tetrachloride	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.76	94.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.15	103.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.80	95.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.16	108.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.65	82.5	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.15	103.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.00	100.0	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.03	100.8	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.52	113.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.59	79.5	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.87	93.5	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				
LCS1	Isopropylbenzene	4	4.10	102.5	(70.00 - 130.00)	

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

MONTGOMERY WATSON LABORATORIES
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555 East Walnut Street
Pasadena, California 91101
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1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.16	104.0	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.42	105.2	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	3.75	93.8	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	4.29	107.2	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.31	107.7	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.13	103.2	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.21	105.2	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	4.18	104.5	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.16	104.0	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.34	108.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	106	106.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	2.8
LCS1	Toluene-d8	100	100	100.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	101	101.0	(91.00 - 107.00)	0.99
LCS1	4-Bromofluorobenzene	100	100	100.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	97	97.0		
MS	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	5.3
LCS1	trans-1,2-Dichloroethylene	4	4.29	107.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				

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(continued)

LCS1	tert-Butylbenzene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.16	104.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.56	114.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.52	113.0	(70.00 - 130.00)	0.88
LCS1	Trichlorotrifluoroethane(Freon	2	1.95	97.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.25	106.2	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.51	112.8	(70.00 - 130.00)	
MSD	Toluene	4	4.46	111.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #112951 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	03160106		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	96	96.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	92	92.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(77.00 - 119.00)	4.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 14, 2000

Attention: Mark Cutler
Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Report # 64085 (MW-001-086, MW-001-029, MW-001-085, MW-001-030, MW-001-031, MW-001-032)

Sampled: 03/20/00

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)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
Bromodichloromethane was detected in MW-001-032
Carbon Tetrachloride was detected in MW-001-030
Chloroform was detected in MW-001-085, 030, 031, 032
Tetrachloroethylene was detected in MW-001-030, 031
Trichloroethylene was detected in MW-001-030, 031
Perchlorate was detected in MW-001-030
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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

Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Continue

64085

TEMP: 12°C
ICE: FRN
* SAMPLED SAME DAY.

FOSTER WHEELER ENVIRONMENTAL CORPORATION

~~OIL LANDFILL~~ (MJH)

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project: JPL

OFS No. 1572.0304

Project Address: 480 OAK GROVE DRIVE, PASADENA CA

Sampler (Name): M. HUNT

Sampler (Signature): Matthew L. Hunt

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOC's (524.2)	Cr_{TOT}	Cr^{+6}	ClO_4	MS for VOC's	MSD for VOC's	MS/MSD for Cr_{TOT}	QC for Cr^{+6}		
MW-001-086	0930	3-20-00	2	2x 40ml	X			X									
MW-001-029	1030	3-20-00	3	2x 40ml 1x 125ml	X			X			X						
MW-001-085	1045	3-20-00	5	2x 40ml 3x 125ml	X			X	X	X	X						
MW-001-030MS	1130	3-20-00	2	2x 40ml	X							X					
MW-001-030MSD	1130	3-20-00	2	2x 40ml	X								X				
MW-001-030	1130	3-20-00	5	2x 40ml 3x 125ml	X			X	X	X	X						
MW-001-031	1255	3-20-00	5	2x 40ml 2x 125ml, 1x 250ml	X			X	X	X	X			X			
MW-001-032	1405	3-20-00	5	2x 40ml 3x 125ml	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)
Company:	Time:	Company:	Company:	Time:	Company:

Form 1400 (10/97)

Shipping Copy (Pink) • File Copy (White) • Field Copy (Canary)