CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 6/19/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0815 Temperature of Solution: 20.4

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

Instrument Response to Calibration Solution: 947

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

Time: 1700 Temperature of Solution: 32.2

Temperature Compensated Solution Conductivity (µ S/cm) * 1142

Instrument Response to Calibration Solution: 1182

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 6/20/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0908 Temperature of Solution: 19.3

Temperature Compensated Solution Conductivity (µ S/cm) * 891

Instrument Response to Calibration Solution: 943

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

Time: 1336 Temperature of Solution: 28.6

Temperature Compensated Solution Conductivity (µ S/cm) * 1071

Instrument Response to Calibration Solution: 1134

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 6/23/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F0395000

Probe Manufacturer: YSI Model: 3520

Serial Number: 94 B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0835 Temperature of Solution: 16.8

Temperature Compensated Solution Conductivity (µ S/cm) * 843

Instrument Response to Calibration Solution: 884

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

Time: 1440 Temperature of Solution: 27.9

Temperature Compensated Solution Conductivity (µ S/cm) * 1057

Instrument Response to Calibration Solution: 1099

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: TCHOI Date: 6-24-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0850 Temperature of Solution: 17.9

Temperature Compensated Solution Conductivity (µ S/cm) * 864

Instrument Response to Calibration Solution: 914

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

Time: 1515 Temperature of Solution: 33.1

Temperature Compensated Solution Conductivity (µ S/cm) * 1160

Instrument Response to Calibration Solution: 1221

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 6-25-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 18.5

Temperature Compensated Solution Conductivity (µ S/cm) * 876

Instrument Response to Calibration Solution: 932

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

Time: 1742 Temperature of Solution: 35.2

Temperature Compensated Solution Conductivity (µ S/cm) * 1202

Instrument Response to Calibration Solution: 1275

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 6/26/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F0395(2)

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0758 Temperature of Solution: 18.1

Temperature Compensated Solution Conductivity (µ S/cm) * 868

Instrument Response to Calibration Solution: 917

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

Time: 1720 Temperature of Solution: 33.1

Temperature Compensated Solution Conductivity (µ S/cm) * 1160

Instrument Response to Calibration Solution: 1229

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: M Losi Date: 6/27/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 1233 Temperature of Solution: 28.1

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

Instrument Response to Calibration Solution: 1146

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

Time: 1337 Temperature of Solution: 34.1

Temperature Compensated Solution Conductivity (µ S/cm) * 1263

Instrument Response to Calibration Solution: 1082

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/2/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0719 Temperature of Solution: 19.5

Temperature Compensated Solution Conductivity (µ S/cm) * 894

Instrument Response to Calibration Solution: 953

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

Time: 1524 Temperature of Solution: 38.7

Temperature Compensated Solution Conductivity (µ S/cm) * 1275

Instrument Response to Calibration Solution: 1361

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/3/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0838 Temperature of Solution: 19.3

Temperature Compensated Solution Conductivity (µ S/cm) * 890

Instrument Response to Calibration Solution: 921

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

Time: 1028 Temperature of Solution: 35.8

Temperature Compensated Solution Conductivity (µ S/cm) * 1215

Instrument Response to Calibration Solution: 1170

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/7/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3500

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 19.5

Temperature Compensated Solution Conductivity (µ S/cm) *: 941

Instrument Response to Calibration Solution: 931

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

Time: 1609 Temperature of Solution: 35.5

Temperature Compensated Solution Conductivity (µ S/cm) *: 1209

Instrument Response to Calibration Solution: 1281

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/8/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92FE39500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0738 Temperature of Solution: 19.5

Temperature Compensated Solution Conductivity (µ S/cm) * 894

Instrument Response to Calibration Solution: 930

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

Time: 1530 Temperature of Solution: 33.6

Temperature Compensated Solution Conductivity (µ S/cm) * 1171

Instrument Response to Calibration Solution: 1200

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/9/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 19.4

Temperature Compensated Solution Conductivity (µ S/cm) *: ~~934~~ 892

Instrument Response to Calibration Solution: 934

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

Time: 1635 Temperature of Solution: 37.4

Temperature Compensated Solution Conductivity (µ S/cm) *: 1248

Instrument Response to Calibration Solution: 1302

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/10/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 19.9

Temperature Compensated Solution Conductivity (µ S/cm) * 902

Instrument Response to Calibration Solution: 953

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

Time: 1630 Temperature of Solution: 31.7

Temperature Compensated Solution Conductivity (µ S/cm) * ~~1323~~ 1132

Instrument Response to Calibration Solution: 1196

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/14/92

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/93

FIELD CALIBRATION

Time: 0756 Temperature of Solution: 19.5

Temperature Compensated Solution Conductivity (µ S/cm) * 894

Instrument Response to Calibration Solution: 945

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

Time: 1521 Temperature of Solution: 22.8

Temperature Compensated Solution Conductivity (µ S/cm) * 957

Instrument Response to Calibration Solution: 981

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/14/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0739 Temperature of Solution: 17.4

Temperature Compensated Solution Conductivity (µ S/cm) * 857

Instrument Response to Calibration Solution: 907

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

Time: 1638 Temperature of Solution: 34.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1179

Instrument Response to Calibration Solution: 1240

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/15/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0783 Temperature of Solution: 18.8

Temperature Compensated Solution Conductivity (µ S/cm) * 872

Instrument Response to Calibration Solution: 928

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

Time: 1209 Temperature of Solution: 30.6

Temperature Compensated Solution Conductivity (µ S/cm) * 1110

Instrument Response to Calibration Solution: 1171

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

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

And

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

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. BLANEY Date: 6/16/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 3800

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95J05973

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/5/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 1134 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: N/A Temperature: 28.0 pH: 6.04 ISO: N/A

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1134 Slope: N/A Temperature: 22.7

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

Time: 1520 Slope: N/A Temperature: 25.0

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. CHOI Date: 6-16-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: ~~3510~~

Buffer Solution Manufacturer: 9750546

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0905 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 26.1 pH: 6.62 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0906 Slope: N/A Temperature: 18.9

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

Time: 1410 Slope: N/A Temperature: 35.1

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 6/17/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97B0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 24.0 pH: 8.78 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0750 Slope: N/A Temperature: 18.5

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

Time: 1440 Slope: N/A Temperature: 34.2

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. BLANEY Date: 6/17/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 3800

pH Probe Manufacturer: YSI Model: 3530

Serial Number: N/A

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/5/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: good

Instrument Readings with Shorting Plug in, mV: — Temperature: 24.0 pH: 6.04 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 24.2

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

Time: 1545 Slope: N/A Temperature: 25.0

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 6/18/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 22.1 pH: 8.93 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 18.6

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

Time: ~~0~~1650 Slope: N/A Temperature: 33.5

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Blankley Date: 6/18/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 3800

pH Probe Manufacturer: YSI Model: 3530

Serial Number: N/A

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: N/A

Buffer Solution Manufacturer: API - LIRCO

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

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: - Temperature: 23.2 pH: 7.15 ISO: -

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 23.2

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

Time: 1435 Slope: N/A Temperature: 25.5

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 6/19/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 20.0 pH: 8.96 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 20.3

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

Time: 1700 Slope: N/A Temperature: 32.1

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: M LOSI Date: 6/20/97

Instrument Manufacturer: YSI Model:

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0802 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 19.2 pH: 8.62 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: NA Temperature: 19.4

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

Time: Slope: Temperature: 28.9

Response to Low Buffer: Response to High Buffer:

Time: 1338 Slope: NA Temperature: 28.9

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

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRANNEK Date: 6/23/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 17.6 pH: 9.09 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0835 Slope: N/A Temperature: 16.8

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

Time: 1440 Slope: N/A Temperature: 27.4

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 6-24-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 20.0 pH: 8.23 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0850 Slope: N/A Temperature: 18.3

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

Time: 1515 Slope: N/A Temperature: 34.4

Response to Low Buffer: 7.00 Response to High Buffer:

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 6-25-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API - LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0820 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 18.9 pH: 8.53 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0824 Slope: N/A Temperature: 18.3

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

Time: 1740 Slope: NA Temperature: 35.6

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MCOSI Date: 6/26/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F0390500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-CIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 10/98

INSTRUMENTATION CHECK-OUT

Time: 0753 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 18.8 pH: 8.52 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0754 Slope: NA Temperature: 18.7

Response to Low Buffer: 7.00 Response to High Buffer: 10.06

Time: 1720 Slope: NA Temperature: 32.8

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: M LOSI Date: 6/27/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F0394500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805592

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 1237 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 24.0 pH: 7.01 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1238 Slope: NA Temperature: 27.5

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

Time: 1535 Slope: NA Temperature: 34.0

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/2/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 96C855772

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0714 Battery Condition: GOO

Instrument Readings with Shorting Plug in, mV: — Temperature: 18.5 pH: 8.75 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0715 Slope: _____ Temperature: 19.3

Response to Low Buffer: 7.06 Response to High Buffer: 10.0

Time: 1523 Slope: _____ Temperature: 45.5

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/3/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0833 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 19.1 pH: 8.18 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0833 Slope: N/A Temperature: 19.5

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

Time: 16:21 Slope: N/A Temperature: 36.5

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/7/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: ~~93B02618~~ 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3516

Serial Number: 95E0546

Buffer Solution Manufacturer: API-LIBRA

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0748 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 19.8 pH: 6.83 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0749 Slope: N/A Temperature: 19.8

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

Time: 1608 Slope: N/A Temperature: 34.9

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLGSI Date: 7/8/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C8055TZ

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0736 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 18.4 pH: 8.21 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0736 Slope: N/A Temperature: 19.3

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

Time: 1530 Slope: N/A Temperature: 33.4

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/9/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIBCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0746 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 19.9 pH: 7.18 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0747 Slope: N/A Temperature: 19.4

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

Time: 1634 Slope: N/A Temperature: 37.2

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/10/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API - LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0742 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 19.0 pH: 8.76 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0743 Slope: N/A Temperature: 19.8

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

Time: 1628 Slope: N/A Temperature: 31.5

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

Time: _____ Slope: _____ Temperature: _____

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

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/11/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0753 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 18.2 pH: 7.48 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0753 Slope: N/A Temperature: 19.2

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

Time: 1520 Slope: N/A Temperature: 22.7

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: MLOSI Date: 7/14/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F0349500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API-LIECO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0737 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 20.2 pH: 7.37 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0737 Slope: N/A Temperature: 17.5

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

Time: 1638 Slope: N/A Temperature: 33.9

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 7/15/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92F039500

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95C805572

ATC Probe Manufacturer: YSI ~~97E05546~~ Model: 3510

Serial Number: 97E0546

Buffer Solution Manufacturer: API LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 10/30/98

INSTRUMENTATION CHECK-OUT

Time: 0751 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 17.4 pH: 7.66 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0751 Slope: N/A Temperature: 18.6

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

Time: 1210 Slope: N/A Temperature: 30.7

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. BLANEY Date: 6/16/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: Z918 Calibration Date: 6/16/97

STANDARDIZATION

Time: 1134 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: ______ Instrument Reading: ______

Time: 1520 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T.CHOI Date: 6-16-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 2700 Calibration Date: 6-16-97

STANDARDIZATION

Time: 0913 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: 1610 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: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. BRENNER Date: 6/17/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 2700 Calibration Date: 6/17/97

STANDARDIZATION

Time: 0740 Scale: 20 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: 1640 Scale: 20 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Blaney Date: 6/17/97

Instrument Manufacturer: HF Scientific Model: DRT-15C

Serial Number: 2918 Calibration Date: 6/17/97

STANDARDIZATION

Time: 0745 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: ______ Instrument Reading: ______

Time: 1540 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

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

NTU of Standard: ______ Instrument Reading: ______

NTU of Standard: ______ Instrument Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. BRENNER Date: 6/18/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: 2700 Calibration Date: 6/18/97

STANDARDIZATION

Time: 0740 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1650 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Blaney Date: 6/18/97

Instrument Manufacturer: Hf Scientific Model: DRT-15C

Serial Number: 2918 Calibration Date: 6/18/97

STANDARDIZATION

Time: 0745 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1435 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. BRENNER Date: 6/19/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: 2700 Calibration Date: 6/19/97

STANDARDIZATION

Time: 0810 Scale: 20 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: 1700 Scale: 20 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: M Losi Date: 6/20/97

Instrument Manufacturer: HF Scientific Model: DRT-15

Serial Number: 2700 Calibration Date: 6/20/97

STANDARDIZATION

Time: 0815 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1332 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. Brenner Date: 6/23/97

Instrument Manufacturer: HF Scientific Model: DRT-15C

Serial Number: 2700 Calibration Date: 6/23/97

STANDARDIZATION

Time: 0830 Scale: 20 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: 1440 Scale: 20 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

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

Standard NTU: ______ Reading: ______

Standard NTU: ______ Reading: ______

Comments: ______

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T.CHOI Date: 6/24/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 2700 Calibration Date: 6/24/97

STANDARDIZATION

Time: 0915 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: 1515 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: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOS Date: 6/25/97

Instrument Manufacturer: HFI Model: DRT 15C

Serial Number: 2654 Calibration Date: 6/25/97

STANDARDIZATION

Time: 0825 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1745 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T.CHOI Date: 6-25-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE

Serial Number: OFFICE METER Calibration Date: 6-25-97

STANDARDIZATION

Time: 0825 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: 1745 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 6/26/97

Instrument Manufacturer: HFSci. Model: DRT 15C

Serial Number: 2654 Calibration Date: 6/26/97

STANDARDIZATION

Time: 0749 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: 1716 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: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 6/27/97

Instrument Manufacturer: HFS Model: DRT-15CE

Serial Number: 11970 Calibration Date: 6/27/97

STANDARDIZATION

Time: 1228 Selected Scale: 10 Instrument at Zero: ~~Yes~~ / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1535 Selected Scale: 10 Instrument at Zero: ~~Yes~~ / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/2/97

Instrument Manufacturer: HFS Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/2/97

STANDARDIZATION

Time: 0716 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1523 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/3/97

Instrument Manufacturer: HF Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/3/97

STANDARDIZATION

Time: 0830 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1611 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/7/97

Instrument Manufacturer: HFS Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/7/97

STANDARDIZATION

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

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1607 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSJ Date: 7/8/97

Instrument Manufacturer: HF Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/8/97

STANDARDIZATION

Time: 0734 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1534 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/9/97

Instrument Manufacturer: HFS Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/9/97

STANDARDIZATION

Time: 0740 Selected Scale: 20 Instrument at Zero: ~~Yes~~ / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1637 Selected Scale: 20 Instrument at Zero: ~~Yes~~ / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/10/97

Instrument Manufacturer: HF S Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/10/97

STANDARDIZATION

Time: 0740 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1626 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/11/97

Instrument Manufacturer: HFS Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/11/98

STANDARDIZATION

Time: 0744 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 1.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1517 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/14/97

Instrument Manufacturer: H/FS Model: DRT 15C

Serial Number: 2654 Calibration Date: 7/14/97

STANDARDIZATION

Time: 0742 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1638 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 7/15/97

Instrument Manufacturer: HFS Model: DRT15C

Serial Number: 2654 Calibration Date: 7/15/97

STANDARDIZATION

Time: 0249 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1208 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

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

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

APPENDIX D

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ANALYTICAL RESULTS INDEX

WELL SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-21-5	35064	MW-972-001	6	6/25/97
MW-21-4	35031	MW-972-002	3	6/24/97
MW-21-3	35031	MW-972-003	3	6/24/97
MW-21-2	35031	MW-972-004	3	6/24/97
MW-21-1	35031	MW-972-005	3	6/24/97
MW-20-5	34986	MW-972-006	13	6/20/97
MW-20-4	35007	MW-972-007	2	6/23/97
MW-20-3	35007	MW-972-008	2	6/23/97
MW-20-2	35007	MW-972-009	2	6/23/97
MW-20-2	35007	MW-972-009 MS	2	6/23/97
MW-20-2	35007	MW-972-009 MSD	2	6/23/97
MW-20-1	35007	MW-972-010	2	6/23/97
MW-19-5	35263	MW-972-011	9	7/7/97
MW-19-4	35126	MW-972-012	12	6/27/97
MW-19-3	35100	MW-972-013	11	6/26/97
MW-19-2	35100	MW-972-014	11	6/26/97
MW-19-1	35100	MW-972-015	11	6/26/97
MW-18-5	34877	MW-972-016	1	6/16/97
MW-18-4	34877	MW-972-017	1	6/16/97
MW-18-3	34877	MW-972-018	1	6/16/97
MW-18-2	34877	MW-972-019	1	6/16/97
MW-18-1	34913	MW-972-020	10	6/17/97
MW-17-5	34972	MW-972-021	5	6/19/97
MW-17-4	34913	MW-972-022	10	6/17/97
MW-17-3	34986	MW-972-023	13	6/20/97
MW-17-2	34943	MW-972-024	4	6/18/97
MW-17-1	34913	MW-972-025	10	6/17/97
MW-16	34913	MW-972-026	10	6/17/97
MW-15	34943	MW-972-027	4	6/18/97
MW-14-5	35263	MW-972-028	9	7/7/97
MW-14-4	35263	MW-972-029	9	7/7/97
MW-14-4	35263	MW-972-029 MS	9	7/7/97
MW-14-4	35263	MW-972-029 MSD	9	7/7/97
MW-14-3	35263	MW-972-030	9	7/7/97
MW-14-2	35235	MW-972-031	8	7/3/97
MW-14-1	35217	MW-972-032	7	7/2/97
MW-13	34913	MW-972-033	10	6/17/97
MW-13 DUP	34913	MW-972-034	10	6/17/97
MW-12-5	35298	MW-972-035	17	7/8/97
MW-12-4	35298	MW-972-036	17	7/8/97
MW-12-3	35298	MW-972-037	17	7/8/97

ANALYTICAL RESULTS INDEX

WELL SAMPLES CONTINUED

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-12-2	35298	MW-972-038	17	7/8/97
MW-12-1	35337	MW-972-039	18	7/9/97
MW-12-1 DUP	35337	MW-972-040	18	7/9/97
MW-11-5	35403	MW-972-041	14	7/11/97
MW-11-4	35403	MW-972-042	14	7/11/97
MW-11-3	35403	MW-972-043	14	7/11/97
MW-11-2	35403	MW-972-044	14	7/11/97
MW-11-1	35403	MW-972-045	14	7/11/97
MW-10	34913	MW-972-046	10	6/17/97
MW-10 DUP	34913	MW-972-047	10	6/17/97
MW-09	34943	MW-972-048	4	6/18/97
MW-08	34913	MW-972-049	10	6/17/97
MW-07	34943	MW-972-050	4	6/18/97
MW-06	34877	MW-972-051	1	6/16/97
MW-06	34877	MW-972-051 MS	1	6/16/97
MW-06	34877	MW-972-051 MSD	1	6/16/97
MW-05	34877	MW-972-052	1	6/16/97
MW-04-5	35380	MW-972-053	19	7/10/97
MW-04-4	35380	MW-972-054	19	7/10/97
MW-04-3	35380	MW-972-055	19	7/10/97
MW-04-2	35380	MW-972-056	19	7/10/97
MW-04-2 DUP	35380	MW-972-057	19	7/10/97
MW-04-1	35380	MW-972-058	19	7/10/97
MW-03-5	35426	MW-972-059	15	7/14/97
MW-03-4	35426	MW-972-060	15	7/14/97
MW-03-3	35463	MW-972-061	16	7/15/97
MW-03-2	35463	MW-972-062	16	7/15/97
MW-03-2	35463	MW-972-062 MS	16	7/15/97
MW-03-2	35463	MW-972-062 MSD	16	7/15/97
MW-03-1	35463	MW-972-063	16	7/15/97
MW-01	34943	MW-972-064	4	6/18/97

ANALYTICAL RESULTS INDEX

BLANKS

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
EB	34877	MW-972-065	1	35597
TB	34877	MW-972-066	1	6/16/97
EB	34913	MW-972-067	10	6/17/97
TB	34913	MW-972-068	10	6/17/97
EB	34943	MW-972-069	4	6/18/97
TB	34943	MW-972-070	4	6/18/97
EB	34972	MW-972-071	5	6/19/97
TB	34972	MW-972-072	5	6/19/97
EB	34986	MW-972-073	13	6/20/97
TB	34986	MW-972-074	13	6/20/97
EB	35007	MW-972-075	2	6/23/97
TB	35007	MW-972-076	2	6/23/97
EB	35031	MW-972-077	3	6/24/97
TB	35031	MW-972-078	3	6/24/97
EB	35064	MW-972-079	6	6/25/97
TB	35064	MW-972-080	6	6/25/97
EB	35100	MW-972-081	11	6/26/97
TB	35100	MW-972-082	11	6/26/97
EB	35126	MW-972-083	12	6/27/97
TB	35126	MW-972-084	12	6/27/97
EB	35217	MW-972-085	7	7/2/97
TB	35217	MW-972-086	7	7/2/97
EB	35235	MW-972-087	8	7/3/97
TB	35235	MW-972-088	8	7/3/97
EB	35263	MW-972-089	9	7/7/97
TB	35263	MW-972-090	9	7/7/97
EB	35298	MW-972-091	17	7/8/97
TB	35298	MW-972-092	17	7/8/97
EB	35337	MW-972-093	18	7/9/97
TB	35337	MW-972-094	18	7/9/97
EB	35380	MW-972-095	19	7/10/97
TB	35380	MW-972-096	19	7/10/97
EB	35403	MW-972-097	14	7/11/97
TB	35403	MW-972-098	14	7/11/97
EB	35426	MW-972-099	15	7/14/97
TB	35426	MW-972-100	15	7/14/97
EB	35463	MW-972-101	16	7/15/97
TB	35463	MW-972-102	16	7/15/97
FB	34943	MW-972-200	4	6/18/97

ANALYTICAL RESULTS INDEX

TRIBUTYLTIN

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-13	34913	MW-972-033	10	6/17/97
MW-12-1	35337	MW-972-039	18	7/9/97
MW-12-1 DUP	35337	MW-972-040	18	7/9/97
MW-12-2	35298	MW-972-038	17	7/8/97
MW-04-1	35380	MW-972-058	19	7/10/97
MW-04-2	35380	MW-972-056	19	7/10/97

ANALYTICAL RESULTS INDEX

PERCHLORATE

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-21-5	35178	MW-972-001	21	6/25/97
MW-21-4	35177	MW-972-002	21	6/24/97
MW-21-3	35177	MW-972-003	21	6/24/97
MW-21-2	35177	MW-972-004	21	6/24/97
MW-21-1	35177	MW-972-005	21	6/24/97
MW-20-5	35175	MW-972-006	20	6/20/97
MW-20-4	35176	MW-972-007	21	6/23/97
MW-20-3	35176	MW-972-008	21	6/23/97
MW-20-2	35176	MW-972-009	21	6/23/97
MW-20-1	35176	MW-972-010	21	6/23/97
MW-19-5	35264	MW-972-011	22	7/7/97
MW-19-4	35180	MW-972-012	21	6/27/97
MW-19-3	35179	MW-972-013	21	6/26/97
MW-19-2	35179	MW-972-014	21	6/26/97
MW-19-1	35179	MW-972-015	21	6/26/97
MW-18-5	35171	MW-972-016	20	6/16/97
MW-18-4	35171	MW-972-017	20	6/16/97
MW-18-3	35171	MW-972-018	20	6/16/97
MW-18-2	35171	MW-972-019	20	6/16/97
MW-18-1	35172	MW-972-020	20	6/17/97
MW-17-5	35174	MW-972-021	20	6/19/97
MW-17-4	35172	MW-972-022	20	6/17/97
MW-17-3	35175	MW-972-023	20	6/20/97
MW-17-2	35173	MW-972-024	20	6/18/97
MW-17-1	35172	MW-972-025	20	6/17/97
MW-16	35172	MW-972-026	20	6/17/97
MW-15	35173	MW-972-027	20	6/18/97
MW-14-5	35264	MW-972-028	22	7/7/97
MW-14-4	35264	MW-972-029	22	7/7/97
MW-14-3	35264	MW-972-030	22	7/7/97
MW-14-2	35236	MW-972-031	22	7/3/97
MW-14-1	35218	MW-972-032	22	7/2/97
MW-13	35172	MW-972-033	20	6/17/97
MW-13 DUP	35172	MW-972-034	20	6/17/97
MW-12-5	35300	MW-972-035	22	7/8/97
MW-12-4	35300	MW-972-036	22	7/8/97
MW-12-3	35300	MW-972-037	22	7/8/97
MW-12-2	35300	MW-972-038	22	7/8/97
MW-12-1	35338	MW-972-039	22	7/9/97
MW-12-1 DUP	35338	MW-972-040	22	7/9/97

ANALYTICAL RESULTS INDEX

PERCHLORATE CONTINUED

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-11-5	35404	MW-972-041	23	7/11/97
MW-11-4	35404	MW-972-042	23	7/11/97
MW-11-3	35404	MW-972-043	23	7/11/97
MW-11-2	35404	MW-972-044	23	7/11/97
MW-11-1	35404	MW-972-045	23	7/11/97
MW-10	35172	MW-972-046	20	6/17/97
MW-10 DUP	35172	MW-972-047	20	6/17/97
MW-09	35173	MW-972-048	20	6/18/97
MW-08	35172	MW-972-049	20	6/17/97
MW-07	35173	MW-972-050	20	6/18/97
MW-06	35171	MW-972-051	20	6/16/97
MW-05	35171	MW-972-052	20	6/16/97
MW-04-5	35381	MW-972-053	23	7/10/97
MW-04-4	35381	MW-972-054	23	7/10/97
MW-04-3	35381	MW-972-055	23	7/10/97
MW-04-2	35381	MW-972-056	23	7/10/97
MW-04-1	35381	MW-972-058	23	7/10/97
MW-03-5	35427	MW-972-059	23	7/14/97
MW-03-4	35427	MW-972-060	23	7/14/97
MW-03-3	35464	MW-972-061	23	7/15/97
MW-03-2	35464	MW-972-062	23	7/15/97
MW-03-1	35464	MW-972-063	23	7/15/97
MW-01	35173	MW-972-064	20	6/18/97

MONTGOMERY WATSON LABORATORIES

July 22, 1997

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

Attention: Mark Cutler

Re: Report # 34877 (MW 972-66, -16, -17, -65, -51, -51MS, -51MSD, -18, -19 and -52)

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):
The MS recovery for Calcium was outside of the 85-115% control limits. The RPD with the MSD was acceptable at 3.1%. We suspect low recoveries are due to matrix interference. Sample MW-972-21 was used for the MS/MSD for Calcium.
The Method Blank reported, for the VOC samples analyzed on 6/19/97 and 6/20/97, was analyzed before the calibration curve. The results for this Method Blank are calculated from the same curve used for calculating the sample results. (Reference QIR # MS-97-021 and -22)

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

Method blanks with compounds detected:
None

Other Comments:
Carbon Tetrachloride was detected in sample ID: MW-972-17, -18
Trihalomethanes were detected in sample ID: MW-972-18, -19
Tetrachloroethylene (PCE) was detected in sammple ID: MW-972-17, -18
Trichloroehtylene (TCE) was detected in sample ID: MW-972-18

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Report Summary of positive results, PR34877

			Result	MDL	UNITS
Analyzed	970616106	MW-972-66			
Analyzed	970616107	MW-972-16			
06/19/97	Alkalinity		145	2.000	MGL
07/01/97	Anion Sum		3.35	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		170	.001	MGL
07/02/97	Calcium, Flame AA		11	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		14.0	.001	MGL
07/17/97	Cation Sum		3.15	.001	MEQL
06/18/97	Chloride		11	1.000	MGL
07/08/97	Iron, Total, ICAP/MS		140	******	UGL
06/17/97	Lab pH		9.1	.001	UNIT
07/02/97	Magnesium, Flame AA		5.2	1.000	MGL
06/18/97	Nitrate-N by IC		0.1	.100	MGL
07/02/97	Potassium, Flame AA		1.7	1.000	MGL
07/02/97	Sodium, Flame AA		49	1.000	MGL
06/18/97	Specific Conductance		280	4.000	UMHO
06/18/97	Sulfate		6.3	2.000	MGL
06/20/97	Total Dissolved Solids		170	10.000	MGL
Analyzed	970616108	MW-972-17			
06/19/97	Carbon Tetrachloride		1.9	.500	UGL
06/19/97	Tetrachloroethylene (PCE)		0.7	.500	UGL
06/19/97	Alkalinity		175	2.000	MGL
07/01/97	Anion Sum		4.33	.001	MEQL
07/08/97	Arsenic, Total, GF		0.005	.005	MGL
07/01/97	Bicarbonate as HCO3,calculated		215	.001	MGL
07/02/97	Calcium, Flame AA		41	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		1.40	.001	MGL
07/10/97	Cation Sum		4.21	.001	MEQL
06/18/97	Chloride		9.3	1.000	MGL
07/08/97	Iron, Total, ICAP/MS		380	******	UGL
06/17/97	Lab pH		8.0	.001	UNIT
07/02/97	Magnesium, Flame AA		9.9	1.000	MGL
06/18/97	Nitrate-N by IC		0.7	.100	MGL
07/02/97	Potassium, Flame AA		1.5	1.000	MGL
07/02/97	Sodium, Flame AA		30	1.000	MGL
06/18/97	Specific Conductance		350	4.000	UMHO
06/18/97	Sulfate		25	2.000	MGL
06/20/97	Total Dissolved Solids		200	10.000	MGL
Analyzed	970616109	MW-972-65			
Analyzed	970616110	MW-972-51			
06/19/97	Alkalinity		145	2.000	MGL
07/01/97	Anion Sum		8.22	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		175	.001	MGL
07/02/97	Calcium, Flame AA		80	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		0.090	.001	MGL
07/10/97	Cation Sum		7.49	.001	MEQL
06/18/97	Chloride		92	2.000	MGL

07/08/97	Chromium, Total, ICAP/MS	19	10.000	UGL
07/08/97	Iron, Total, ICAP/MS	190	******	UGL
06/17/97	Lab pH	6.9	.001	UNIT
07/02/97	Magnesium, Flame AA	28	1.000	MGL
06/18/97	Nitrate-N by IC	11	.200	MGL
07/02/97	Potassium, Flame AA	2.1	1.000	MGL
07/02/97	Sodium, Flame AA	26	1.000	MGL
06/18/97	Specific Conductance	710	4.000	UMHO
06/18/97	Sulfate	93	4.000	MGL
06/20/97	Total Dissolved Solids	470	10.000	MGL
Analyzed	970616111 MW-972-51 MS			
06/19/97	1,1-Dichloroethylene	4.70	.500	UGL
06/19/97	1,2,4-Trichlorobenzene	3.58	.500	UGL
06/19/97	Benzene	4.14	.500	UGL
06/19/97	Chlorobenzene	4.10	.500	UGL
06/19/97	Chloroform (Trichloromethane)	4.35	.500	UGL
06/19/97	Toluene	4.32	.500	UGL
06/19/97	Trichloroethylene (TCE)	3.99	.500	UGL
06/19/97	p-Chlorotoluene	4.19	.500	UGL
06/19/97	p-Dichlorobenzene (1,4-DCB)	4.04	.500	UGL
Analyzed	970616112 MW-972-51 MSD			
06/20/97	1,1-Dichloroethylene	4.97	.500	UGL
06/20/97	1,2,4-Trichlorobenzene	3.47	.500	UGL
06/20/97	Benzene	4.17	.500	UGL
06/20/97	Chlorobenzene	4.05	.500	UGL
06/20/97	Chloroform (Trichloromethane)	4.43	.500	UGL
06/20/97	Toluene	4.26	.500	UGL
06/20/97	Trichloroethylene (TCE)	3.99	.500	UGL
06/20/97	p-Chlorotoluene	4.21	.500	UGL
06/20/97	p-Dichlorobenzene (1,4-DCB)	4.04	.500	UGL
Analyzed	970616113 MW-972-18			
06/19/97	Carbon Tetrachloride	0.6	.500	UGL
06/19/97	Chloroform (Trichloromethane)	4.4	.500	UGL
06/19/97	Tetrachloroethylene (PCE)	1.8	.500	UGL
06/19/97	Trichloroethylene (TCE)	2.4	.500	UGL
06/19/97	Alkalinity	200	2.000	MGL
07/01/97	Anion Sum	5.10	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	245	.001	MGL
07/02/97	Calcium, Flame AA	52	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	1.00	.001	MGL
07/10/97	Cation Sum	4.95	.001	MEQL
06/18/97	Chloride	13	2.000	MGL
07/08/97	Iron, Total, ICAP/MS	230	******	UGL
06/17/97	Lab pH	7.8	.001	UNIT
07/02/97	Magnesium, Flame AA	17	1.000	MGL
06/18/97	Nitrate-N by IC	1.0	.200	MGL
07/02/97	Potassium, Flame AA	3.0	1.000	MGL
07/02/97	Sodium, Flame AA	20	1.000	MGL
06/18/97	Specific Conductance	415	4.000	UMHO
06/18/97	Sulfate	32	4.000	MGL
06/20/97	Total Dissolved Solids	270	10.000	MGL
Analyzed	970616114 MW-972-19			

06/19/97	Bromodichloromethane	0.8	.500	UGL
06/19/97	Chloroform (Trichloromethane)	3.7	.500	UGL
06/19/97	Alkalinity	170	2.000	MGL
07/01/97	Anion Sum	4.65	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	205	.001	MGL
07/02/97	Calcium, Flame AA	50	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	0.265	.001	MGL
07/10/97	Cation Sum	4.54	.001	MEQL
06/18/97	Chloride	13	1.000	MGL
07/08/97	Iron, Total, ICAP/MS	180	******	UGL
06/17/97	Lab pH	7.3	.001	UNIT
07/02/97	Magnesium, Flame AA	15	1.000	MGL
06/18/97	Nitrate-N by IC	1.3	.100	MGL
07/02/97	Potassium, Flame AA	2.7	1.000	MGL
07/02/97	Sodium, Flame AA	17	1.000	MGL
06/18/97	Specific Conductance	385	4.000	UMHO
06/18/97	Sulfate	38	2.000	MGL
06/20/97	Total Dissolved Solids	240	10.000	MGL
Analyzed	970616115 MW-972-52			
06/19/97	Alkalinity	135	2.000	MGL
07/01/97	Anion Sum	3.65	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	165	.001	MGL
07/02/97	Calcium, Flame AA	39	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	0.068	.001	MGL
07/10/97	Cation Sum	3.62	.001	MEQL
06/18/97	Chloride	7.5	1.000	MGL
07/08/97	Iron, Total, ICAP/MS	280	******	UGL
06/17/97	Lab pH	6.8	.001	UNIT
07/02/97	Magnesium, Flame AA	12	1.000	MGL
06/18/97	Nitrate-N by IC	1.6	.100	MGL
07/02/97	Potassium, Flame AA	2.7	1.000	MGL
07/02/97	Sodium, Flame AA	14	1.000	MGL
06/18/97	Specific Conductance	310	4.000	UMHO
06/18/97	Sulfate	30	2.000	MGL
06/20/97	Total Dissolved Solids	200	10.000	MGL

QUALITY INVESTIGATION REPORT

QIR No. MS-97-022

Analysis Date: June 20, 1997 | Analysis: 524.2

Extraction Date: NA | Matrix: WATER

Analyst: VOM | Instrument ID: GCMS-E

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
9706161l2	MW-972-51MSD	FOSTER WHEELER			

Brief Description: (include reason for non-compliance)

IS#3 recovered below 70% of the continuing CALIBRATION in the method BL Analyzed After QC.

Action Taken:

1) - Method BLANK was re-analyzed, IS#3 recovered below QC ci again.

2) - Method BLANK Analyzed before QC is within range, CAN re this blank instead.

* 3) - No more sample left to re-analyze.

Impact on Data Quality:

None - IS is ok in sample.

Clean ION source, replace filament, Replaced transfer lines, glass liner and septa Samples analyzed on another instrument not exhibitting the same problem.

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

Other:

Annotation:

Client Contact: C. Rice annotate as above data qualified 7/2/97

Extraction:	NA	Date:	NA
Analyst:	Yolanda Martin	Date:	6/24/97
Group Leader:	Cecilia Tsi	Date:	6-24-97
QA Coordinator:	[illegible]	Date:	7-2-97
Project Manager:	Frank	Date:	6/24/97, 7/2/

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

Report#: 34877
JPL

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

Samples Received
16-jun-1997 17:05:21

MW-972-66 (970616106) Sampled on 06/16/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
06/19/97	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.30	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	105	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-16 (970616107) Sampled on 06/16/97								
	06/19/97	63459	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	3.35	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	11	mg/l	1.0	1
	07/17/97		(ML/SM1040)	Cation Sum	3.15	meq/l	0.0010	1
	06/18/97	63584	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	14.0	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/18/97		(ML/S2510B)	Specific Conductance	280	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	140	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	170	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	1.7	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	5.2	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	49	mg/l	1.0	1
	06/18/97	63585	(ML/EPA 300.0)	Nitrate-N by IC	0.1	mg/l	0.10	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/17/97		(ML/S4500H-B)	Lab pH	9.1	Units	0.0010	1
	06/18/97	63586	(ML/EPA 300)	Sulfate	6.3	mg/l	2.0	1
	06/20/97	63602	(ML/S2540C)	Total Dissolved Solids	170	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbon disulfide	1.1	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	108	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		
MW-972-17 (970616108)			**Sampled on**	**06/16/97**				
	06/19/97	63459	(ML/S2320B)	Alkalinity	175	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	4.33	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	0.005	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	41	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	4.21	meq/l	0.0010	1
	06/18/97	63584	(ML/EPA 300)	Chloride	9.3	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.40	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/18/97		(ML/S2510B)	Specific Conductance	350	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	380	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	215	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	1.5	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	9.9	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	30	mg/l	1.0	1
	06/18/97	63585	(ML/EPA 300.0)	Nitrate-N by IC	0.7	mg/l	0.10	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/17/97		(ML/S4500H-B)	Lab pH	8.0	Units	0.0010	1
	06/18/97	63586	(ML/EPA 300)	Sulfate	25	mg/l	2.0	1
	06/20/97	63602	(ML/S2540C)	Total Dissolved Solids	200	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	1.9	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	107	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-65 (970616109) Sampled on 06/16/97								
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	101	% Rec		
MW-972-51 (970616110) Sampled on 06/16/97								
	06/19/97	63459	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	8.22	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	80	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	7.49	meq/l	0.0010	1
	06/18/97	63584	(ML/EPA 300)	Chloride	92	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.090	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	19	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/18/97		(ML/S2510B)	Specific Conductance	710	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	190	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	175	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	2.1	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	28	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	26	mg/l	1.0	1
	06/18/97	63585	(ML/EPA 300.0)	Nitrate-N by IC	11	mg/l	0.20	2
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/17/97		(ML/S4500H-B)	Lab pH	6.9	Units	0.0010	1
	06/18/97	63586	(ML/EPA 300)	Sulfate	93	mg/l	4.0	2
	06/20/97	63602	(ML/S2540C)	Total Dissolved Solids	470	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	103	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MW-972-51 MS (970616111) Sampled on 06/16/97

Regulated VOCs plus Lists 1&3

	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	4.70	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.58	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1

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Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	4.04	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	4.19	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	4.14	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	4.10	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.35	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.99	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	4.32	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-972-51 MSD (970616112) Sampled on 06/16/97

Regulated VOCs plus Lists 1&3

	06/20/97	63652	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,1-Dichloroethylene	4.97	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.47	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	4.04	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/20/97	63652	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	p-Chlorotoluene	4.21	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	06/20/97	63652	(ML/EPA 524.2)	Benzene	4.17	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Chlorobenzene	4.05	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.43	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/20/97	63652	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/20/97	63652	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.99	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Toluene	4.26	ug/l	0.50	1
	06/20/97	63652	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-972-18 (970616113)	**Sampled on 06/16/97**							
	06/19/97	63459	(ML/S2320B)	Alkalinity	200	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	5.10	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	52	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	4.95	meq/l	0.0010	1
	06/18/97	63584	(ML/EPA 300)	Chloride	13	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.00	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/18/97		(ML/S2510B)	Specific Conductance	415	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	230	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	245	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	3.0	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	17	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	20	mg/l	1.0	1
	06/18/97	63585	(ML/EPA 300.0)	Nitrate-N by IC	1.0	mg/l	0.20	2
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/17/97		(ML/S4500H-B)	Lab pH	7.8	Units	0.0010	1
	06/18/97	63586	(ML/EPA 300)	Sulfate	32	mg/l	4.0	2
	06/20/97	63602	(ML/S2540C)	Total Dissolved Solids	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	0.6	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.4	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.8	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	2.4	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MW-972-19 (970616114) Sampled on 06/16/97

	06/19/97	63459	(ML/S2320B)	Alkalinity	170	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	4.65	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	50	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	4.54	meq/l	0.0010	1
	06/18/97	63584	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.265	mg/l	0.0010	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/18/97		(ML/S2510B)	Specific Conductance	385	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	180	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	205	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	2.7	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	15	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	17	mg/l	1.0	1
	06/18/97	63585	(ML/EPA 300.0)	Nitrate-N by IC	1.3	mg/l	0.10	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/17/97		(ML/S4500H-B)	Lab pH	7.3	Units	0.0010	1
	06/18/97	63586	(ML/EPA 300)	Sulfate	38	mg/l	2.0	1
	06/20/97	63602	(ML/S2540C)	Total Dissolved Solids	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.7	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	0.8	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	110	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		
MW-972-52 (970616115) Sampled on 06/16/97								
	06/19/97	63459	(ML/S2320B)	Alkalinity	135	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	3.65	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	39	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	3.62	meq/l	0.0010	1
	06/18/97	63584	(ML/EPA 300)	Chloride	7.5	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.068	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/17/97	63430	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/18/97		(ML/S2510B)	Specific Conductance	310	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	280	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	165	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	2.7	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	14	mg/l	1.0	1
	06/18/97	63585	(ML/EPA 300.0)	Nitrate-N by IC	1.6	mg/l	0.10	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/17/97		(ML/S4500H-B)	Lab pH	6.8	Units	0.0010	1
	06/18/97	63586	(ML/EPA 300)	Sulfate	30	mg/l	2.0	1
	06/20/97	63602	(ML/S2540C)	Total Dissolved Solids	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/19/97	63618	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/19/97	63618	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/19/97	63618	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/19/97	63618	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/19/97	63618	(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	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	108	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Group Comments

(524) Method blank before calibration is reported for samples analyzed on 6/19/97 and 6/20/97. Reference QIR-MS-97-021 and QIR-MS-97-022.
(Calcium) The MS recovery is outside the internal QC limit, matrix effect is suspected. The RPD within the MS/MSD is within the established control limit.

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QC Batch #63430 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0494	98.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0523	104.6	(78.00 - 118.00)	5.7
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0509	101.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0523	104.6	(80.00 - 120.00)	2.7

QC Batch #63459 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	105	109.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	105	109.1	(90.00 - 110.00)	0.00
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	105	109.1	(80.00 - 120.00)	
MSD	Alkalinity	96.2	109	113.3	(80.00 - 120.00)	3.7

QC Batch #63584 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
MBLK	Chloride	ND				
MS	Chloride	25	26.2	104.8	(80.00 - 120.00)	
MSD	Chloride	25	26.3	105.2	(80.00 - 120.00)	0.38

QC Batch #63585 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.59	103.6	(90.00 - 110.00)	
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	0.00

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QC Batch #63586 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	51.1	102.2	(90.00 - 110.00)	
MBLK	Sulfate	ND				
MS	Sulfate	50	50.3	100.6	(70.00 - 130.00)	
MSD	Sulfate	50	50.3	100.6	(70.00 - 130.00)	0.00

QC Batch #63602 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	172	98.3	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	648	92.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #63618 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.45	111.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.50	112.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.90	122.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				

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MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.28	107.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	4.04	101.0	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	8.24	103.0	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.30	107.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.34	108.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	4.08	102.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.33	108.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.34	108.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.03	100.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.22	105.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.54	113.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.58	114.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.33	116.5	(70.00 - 130.00)

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MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.52	113.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.43	110.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.32	108.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.33	108.2	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.26	113.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.20	110.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.89	97.2	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.75	109.4	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.19	104.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.38	109.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.21	105.2	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.77	119.2	(70.00 - 130.00)

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MBLK	trans-1,2-Dichloroethylene	ND
MBLK	trans-1,3-Dichloropropene	ND

QC Batch #63652 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.30	107.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.41	110.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.92	123.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.23	105.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.82	95.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.70	96.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	4.14	103.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				

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Foster Wheeler Environmental, Inc
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MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.21	105.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.56	89.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.51	112.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.24	106.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.13	103.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.31	107.7	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.58	114.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.37	118.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.17	104.2	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.40	110.0	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.41	110.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.24	106.0	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.24	112.0	(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	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.29	114.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.85	96.2	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.71	108.9	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.06	101.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.31	107.7	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.98	99.5	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.76	119.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #64065 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.6	103.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.9	104.5	(80.00 - 120.00)	1.4
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.2	101.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.5	103.0	(85.00 - 115.00)	1.5

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

QC Batch #64067 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	51.0	102.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	1.6
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.6	95.2	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	47.3	95.0	(85.00 - 115.00)	0.63

QC Batch #64069 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.0	100.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	20.1	100.5	(90.00 - 110.00)	0.50
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.3	96.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	19.6	98.0	(85.00 - 115.00)	1.5

QC Batch #64071 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	54.8	109.6	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	54.4	108.8	(90.00 - 110.00)	0.73
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	41.0	82.0	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	42.3	85.0	(85.00 - 115.00)	3.1

QC Batch #64196 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	0.98
MBLK	Chromium, Total, ICAP/MS	ND				

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Foster Wheeler Environmental, Inc
(continued)

MS	Chromium, Total, ICAP/MS	100	95.6	95.6	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95.9	95.9	(70.00 - 130.00)	0.31

QC Batch #64198 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	0.50
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	3.5

QC Batch #64200 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	476	95.2	(85.00 - 115.00)	2.7
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	475	95.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	436	87.2	(70.00 - 130.00)	8.6

QC Batch #64420 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0222	111.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0212	106.0	(85.00 - 115.00)	1.9

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July 21, 1997

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

Attention: Mark Cutler

Re: Report # 35007 (MW 972-76, -09MS, -09MSD, -75, -07, -08, -09 and -10)

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):
All QC was acceptable
Samples requiring dilution (with increased MRL's):
None.
Method blanks with compounds detected:
None
Other Comments:
Chloroform was detected in sample ID: MW-972-09 and -10

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

Report Summary of positive results, PR35007

			Result	MDL	UNITS
Analyzed	970624001	MW-972-76			
Analyzed	970624002	MW-972-09 MS			
06/24/97	1,1-Dichloroethylene		4.37	.500	UGL
06/24/97	1,2,4-Trichlorobenzene		4.30	.500	UGL
06/24/97	Benzene		3.93	.500	UGL
06/24/97	Chlorobenzene		3.98	.500	UGL
06/24/97	Chloroform (Trichloromethane)		3.31	.500	UGL
06/24/97	Toluene		3.92	.500	UGL
06/24/97	Trichloroethylene (TCE)		3.83	.500	UGL
06/24/97	p-Chlorotoluene		3.75	.500	UGL
06/24/97	p-Dichlorobenzene (1,4-DCB)		3.82	.500	UGL
Analyzed	970624003	MW-972-09 MSD			
06/24/97	1,1-Dichloroethylene		4.20	.500	UGL
06/24/97	1,2,4-Trichlorobenzene		4.15	.500	UGL
06/24/97	Benzene		4.11	.500	UGL
06/24/97	Chlorobenzene		4.07	.500	UGL
06/24/97	Chloroform (Trichloromethane)		3.50	.500	UGL
06/24/97	Toluene		3.99	.500	UGL
06/24/97	Trichloroethylene (TCE)		3.83	.500	UGL
06/24/97	p-Chlorotoluene		3.70	.500	UGL
06/24/97	p-Dichlorobenzene (1,4-DCB)		3.80	.500	UGL
Analyzed	970624004	MW-972-75			
Analyzed	970624005	MW-972-07			
06/26/97	Alkalinity		140	2.000	MGL
07/07/97	Anion Sum		3.57	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		170	.001	MGL
07/02/97	Calcium, Flame AA		12	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		2.20	.001	MGL
07/10/97	Cation Sum		3.31	.001	MEQL
06/24/97	Chloride		11	1.000	MGL
07/08/97	Iron, Total, ICAP/MS		220	******	UGL
06/25/97	Lab pH		8.3	.001	UNIT
07/02/97	Magnesium, Flame AA		3.0	1.000	MGL
07/02/97	Potassium, Flame AA		1.0	1.000	MGL
07/02/97	Sodium, Flame AA		56	1.000	MGL
06/25/97	Specific Conductance		325	4.000	UMHO
06/24/97	Sulfate		22	2.000	MGL
06/27/97	Total Dissolved Solids		210	10.000	MGL
Analyzed	970624006	MW-972-08			
06/26/97	Alkalinity		190	2.000	MGL
07/07/97	Anion Sum		5.31	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		230	.001	MGL
07/02/97	Calcium, Flame AA		37	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		2.37	.001	MGL
07/10/97	Cation Sum		5.20	.001	MEQL

06/24/97	Chloride	30	1.000	MGL
07/08/97	Iron, Total, ICAP/MS	800	******	UGL
06/25/97	Lab pH	8.2	.001	UNIT
07/02/97	Magnesium, Flame AA	13	1.000	MGL
06/24/97	Nitrate-N by IC	3.1	.100	MGL
07/02/97	Potassium, Flame AA	2.3	1.000	MGL
07/02/97	Sodium, Flame AA	51	1.000	MGL
06/25/97	Specific Conductance	495	4.000	UMHO
06/24/97	Sulfate	21	2.000	MGL
06/27/97	Total Dissolved Solids	280	10.000	MGL
Analyzed	970624007 MW-972-09			
06/24/97	Chloroform (Trichloromethane)	3.3	.500	UGL
06/26/97	Alkalinity	125	2.000	MGL
07/07/97	Anion Sum	3.49	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	145	.001	MGL
07/02/97	Calcium, Flame AA	13	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	14.9	.001	MGL
07/10/97	Cation Sum	3.39	.001	MEQL
06/24/97	Chloride	13	1.000	MGL
07/08/97	Iron, Total, ICAP/MS	320	******	UGL
06/25/97	Lab pH	9.2	.001	UNIT
07/02/97	Magnesium, Flame AA	11	1.000	MGL
06/24/97	Nitrate-N by IC	0.2	.100	MGL
07/02/97	Potassium, Flame AA	2.2	1.000	MGL
07/02/97	Sodium, Flame AA	41	1.000	MGL
06/25/97	Specific Conductance	325	4.000	UMHO
06/24/97	Sulfate	29	2.000	MGL
06/27/97	Total Dissolved Solids	210	10.000	MGL
Analyzed	970624008 MW-972-10			
06/24/97	Chloroform (Trichloromethane)	0.8	.500	UGL
06/26/97	Alkalinity	165	2.000	MGL
07/07/97	Anion Sum	8.87	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	200	.001	MGL
07/02/97	Calcium, Flame AA	105	5.000	MGL
07/01/97	Carbonate as CO3, Calculated	0.651	.001	MGL
07/10/97	Cation Sum	8.94	.001	MEQL
06/24/97	Chloride	56	2.000	MGL
07/08/97	Iron, Total, ICAP/MS	440	******	UGL
06/25/97	Lab pH	7.7	.001	UNIT
07/02/97	Magnesium, Flame AA	32	1.000	MGL
06/24/97	Nitrate-N by IC	15	.200	MGL
07/02/97	Potassium, Flame AA	3.8	1.000	MGL
07/02/97	Sodium, Flame AA	22	1.000	MGL
06/25/97	Specific Conductance	830	4.000	UMHO
06/24/97	Sulfate	140	4.000	MGL
06/27/97	Total Dissolved Solids	520	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

Report#: 35007
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#35007

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

Samples Received
23-jun-1997 09:04:00

MW-972-76 (970624001) Sampled on 06/23/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
06/24/97	63647	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
06/24/97	63647	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
06/24/97	63647	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
06/24/97	63647	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#35007

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63647	(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	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-09 MS (970624002)			**Sampled on 06/23/97**					
				Regulated VOCs plus Lists 1&3				
06/24/97	63647		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1-Dichloroethylene	4.37	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	4.30	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.82	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
06/24/97	63647		(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	p-Chlorotoluene	3.75	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
06/24/97	63647		(ML/EPA 524.2)	Benzene	3.93	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Chlorobenzene	3.98	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.31	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.83	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	3.92	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-09 MSD (970624003) Sampled on 06/23/97								
				Regulated VOCs plus Lists 1&3				
06/24/97	63647		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1-Dichloroethylene	4.20	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	4.15	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.80	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
06/24/97	63647		(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	p-Chlorotoluene	3.70	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
06/24/97	63647		(ML/EPA 524.2)	Benzene	4.11	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Chlorobenzene	4.07	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.50	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
06/24/97	63647		(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.83	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	3.99	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-75 (970624004) Sampled on 06/23/97								
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/24/97	63631	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	06/24/97	63647	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63647	(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	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63647	(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		

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Report
#35007

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	95	% Rec		
MW-972-07 (970624005) Sampled on 06/23/97								
	06/26/97	63735	(ML/S2320B)	Alkalinity	140	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	3.57	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	12	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	3.31	meq/l	0.0010	1
	06/24/97	64034	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	2.20	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/24/97	63631	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/25/97		(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	220	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	170	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	1.0	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	3.0	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	56	mg/l	1.0	1
	06/24/97	64037	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/25/97		(ML/S4500H-B)	Lab pH	8.3	Units	0.0010	1
	06/24/97	64038	(ML/EPA 300)	Sulfate	22	mg/l	2.0	1
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	210	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/24/97	63647	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63647	(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	92	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-972-08 (970624006)			**Sampled on 06/23/97**					
	06/26/97	63735	(ML/S2320B)	Alkalinity	190	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	5.31	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	37	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	5.20	meq/l	0.0010	1
	06/24/97	64034	(ML/EPA 300)	Chloride	30	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	2.37	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/24/97	63631	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/25/97		(ML/S2510B)	Specific Conductance	495	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	800	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	230	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	2.3	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	13	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	51	mg/l	1.0	1
	06/24/97	64037	(ML/EPA 300.0)	Nitrate-N by IC	3.1	mg/l	0.10	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/25/97		(ML/S4500H-B)	Lab pH	8.2	Units	0.0010	1
	06/24/97	64038	(ML/EPA 300)	Sulfate	21	mg/l	2.0	1
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	280	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/24/97	63647	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63647	(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	92	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-09 (970624007) Sampled on 06/23/97								
	06/26/97	63735	(ML/S2320B)	Alkalinity	125	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	3.49	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	13	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	3.39	meq/l	0.0010	1
	06/24/97	64034	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	14.9	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/24/97	63631	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/25/97		(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	320	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	145	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	2.2	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	11	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	41	mg/l	1.0	1
	06/24/97	64037	(ML/EPA 300.0)	Nitrate-N by IC	0.2	mg/l	0.10	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/25/97		(ML/S4500H-B)	Lab pH	9.2	Units	0.0010	1
	06/24/97	64038	(ML/EPA 300)	Sulfate	29	mg/l	2.0	1
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	210	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/24/97	63647	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.3	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63647	(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	94	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-972-10 (970624008)			**Sampled on**	**06/23/97**				
	06/26/97	63735	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	8.87	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	105	mg/l	5.0	5
	07/10/97		(ML/SM1040)	Cation Sum	8.94	meq/l	0.0010	1
	06/24/97	64034	(ML/EPA 300)	Chloride	56	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.651	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/24/97	63631	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/25/97		(ML/S2510B)	Specific Conductance	830	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	440	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	200	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	3.8	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	32	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	22	mg/l	1.0	1
	06/24/97	64037	(ML/EPA 300.0)	Nitrate-N by IC	15	mg/l	0.20	2
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97		(ML/S4500H-B)	Lab pH	7.7	Units	0.0010	1
	06/24/97	64038	(ML/EPA 300)	Sulfate	140	mg/l	4.0	2
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	520	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/24/97	63647	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63647	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63647	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63647	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63647	(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	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	106	% Rec		

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Laboratory
QC Report
#35007

Foster Wheeler Environmental, Inc

QC Batch #63631 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0505	101.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0505	101.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.051	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.051	102.0	(80.00 - 120.00)	0.00

QC Batch #63647 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.13	103.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.05	101.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.26	106.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.23	105.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.93	98.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.55	94.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				

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Foster Wheeler Environmental, Inc
(continued)

MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.17	104.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.96	99.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.70	92.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.29	107.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.91	97.8	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.83	95.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.35	108.7	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.50	112.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.76	88.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.98	124.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.30	107.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.98	99.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			

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(continued)

LCS1	Toluene	4	4.08	102.0	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.84	96.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.16	108.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.96	98.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.78	94.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.80	110.0	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.93	98.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.24	106.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.17	104.2	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.58	114.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #63735 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	0.00
MBLK	Alkalinity	ND				

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(continued)

MS	Alkalinity	96.2	105	109.1	(80.00 - 120.00)	
MSD	Alkalinity	96.2	97	100.8	(80.00 - 120.00)	7.9

QC Batch #63837 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	648	92.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #64034 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	25.1	100.4	(90.00 - 110.00)	
LCS2	Chloride	25	25.6	102.4	(90.00 - 110.00)	2.0
MBLK	Chloride	ND				
MS	Chloride	25	26.4	105.6	(80.00 - 120.00)	
MSD	Chloride	25	26.4	105.6	(80.00 - 120.00)	0.00

QC Batch #64037 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.51	100.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.53	101.2	(90.00 - 110.00)	0.79
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.60	104.0	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.59	103.6	(90.00 - 110.00)	0.39

QC Batch #64038 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.1	100.2	(90.00 - 110.00)	
LCS2	Sulfate	50	50.0	100.0	(90.00 - 110.00)	0.20
MBLK	Sulfate	ND				

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(continued)

MS	Sulfate	50	54.6	109.2	(70.00 - 130.00)	
MSD	Sulfate	50	53.5	107.0	(70.00 - 130.00)	2.0

QC Batch #64066 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	19.2	96.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	21.0	105.0	(80.00 - 120.00)	9.0
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.2	101.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.3	101.5	(85.00 - 115.00)	0.49

QC Batch #64068 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	46.6	93.2	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.3	98.6	(90.00 - 110.00)	5.6
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	48.1	96.2	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	47.8	95.6	(85.00 - 115.00)	0.63

QC Batch #64070 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.9	99.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.9	99.5	(90.00 - 110.00)	0.00
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.6	98.0	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	19.3	96.5	(85.00 - 115.00)	1.5

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #64072 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	54.5	109.0	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	8.0
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	51.7	103.4	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	51.3	102.6	(85.00 - 115.00)	0.78

QC Batch #64196 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	0.98
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95.6	95.6	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95.9	95.9	(70.00 - 130.00)	0.31

QC Batch #64198 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	0.50
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	3.5

QC Batch #64200 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	476	95.2	(85.00 - 115.00)	2.7
MBLK	Iron, Total, ICAP/MS	ND				

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MS	Iron, Total, ICAP/MS	500	475	95.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	436	87.2	(70.00 - 130.00)	8.6

QC Batch #64420 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0222	111.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0212	106.0	(85.00 - 115.00)	1.9

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July 21, 1997

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

Attention: Mark Cutler

Re: Report # 35031 (MW 972-78, -77, -02, -03, -04, and -05)

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):
The percent difference between the cation and anion sums was greater than 5% for sample ID: MW-972-05

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

Method blanks with compounds detected:
None

Other Comments:
Tetrachloroethylene (PCE) was detected in sample ID: MW-972-02, -03, and -04,.
Chloroform was detected in sample ID: MW-972-05.

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

Report Summary of positive results, PR35031

			Result	MDL	UNITS
Analyzed	970625001	MW-972-78			
Analyzed	970625002	MW-972-77			
Analyzed	970625003	MW-972-02			
06/25/97	Tetrachloroethylene (PCE)		2.8	.500	UGL
06/26/97	Alkalinity		220	2.000	MGL
07/07/97	Anion Sum		8.48	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		270	.001	MGL
07/02/97	Calcium, Flame AA		84	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		0.441	.001	MGL
07/10/97	Cation Sum		7.66	.001	MEQL
06/25/97	Chloride		67	2.000	MGL
06/26/97	Lab pH		7.4	.001	UNIT
07/02/97	Magnesium, Flame AA		27	1.000	MGL
06/25/97	Nitrate-N by IC		10	.200	MGL
07/02/97	Potassium, Flame AA		2.6	1.000	MGL
07/02/97	Sodium, Flame AA		27	1.000	MGL
06/27/97	Specific Conductance		780	4.000	UMHO
06/25/97	Sulfate		71	4.000	MGL
06/27/97	Total Dissolved Solids		460	10.000	MGL
Analyzed	970625004	MW-972-03			
06/25/97	Tetrachloroethylene (PCE)		1.2	.500	UGL
06/26/97	Alkalinity		250	2.000	MGL
07/07/97	Anion Sum		10.2	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		305	.001	MGL
07/02/97	Calcium, Flame AA		98	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		0.498	.001	MGL
07/10/97	Cation Sum		9.30	.001	MEQL
06/25/97	Chloride		93	2.000	MGL
07/08/97	Iron, Total, ICAP/MS		870	******	UGL
06/26/97	Lab pH		7.4	.001	UNIT
07/02/97	Magnesium, Flame AA		34	1.000	MGL
06/25/97	Nitrate-N by IC		9.8	.200	MGL
07/02/97	Potassium, Flame AA		3.2	1.000	MGL
07/02/97	Sodium, Flame AA		35	1.000	MGL
06/27/97	Specific Conductance		950	4.000	UMHO
06/25/97	Sulfate		90	4.000	MGL
06/27/97	Total Dissolved Solids		580	10.000	MGL
Analyzed	970625005	MW-972-04			
06/25/97	Tetrachloroethylene (PCE)		0.7	.500	UGL
06/26/97	Alkalinity		265	2.000	MGL
07/07/97	Anion Sum		12.4	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		325	.001	MGL
07/02/97	Calcium, Flame AA		140	5.000	MGL
07/01/97	Carbonate as CO3, Calculated		0.841	.001	MGL
07/10/97	Cation Sum		12.9	.001	MEQL
06/25/97	Chloride		120	3.000	MGL
06/26/97	Lab pH		7.6	.001	UNIT

07/02/97	Magnesium, Flame AA	44	1.000	MGL
06/25/97	Nitrate-N by IC	7.0	.300	MGL
07/02/97	Potassium, Flame AA	3.4	1.000	MGL
07/02/97	Sodium, Flame AA	50	1.000	MGL
06/27/97	Specific Conductance	1170	4.000	UMHO
06/25/97	Sulfate	155	6.000	MGL
06/27/97	Total Dissolved Solids	740	10.000	MGL
Analyzed	970625006 MW-972-05			
06/25/97	Chloroform (Trichloromethane)	1.6	.500	UGL
06/25/97	Trichloroethylene (TCE)	20	.500	UGL
06/26/97	Alkalinity	170	2.000	MGL
07/07/97	Anion Sum	9.11	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	210	.001	MGL
07/02/97	Calcium, Flame AA	87	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	0.086	.001	MGL
07/10/97	Cation Sum	8.13	.001	MEQL
06/25/97	Chloride	78	2.000	MGL
06/26/97	Lab pH	6.8	.001	UNIT
07/02/97	Magnesium, Flame AA	31	1.000	MGL
06/25/97	Nitrate-N by IC	17	.200	MGL
07/02/97	Potassium, Flame AA	2.2	1.000	MGL
07/02/97	Sodium, Flame AA	27	1.000	MGL
06/27/97	Specific Conductance	860	4.000	UMHO
06/25/97	Sulfate	110	4.000	MGL
06/27/97	Total Dissolved Solids	520	10.000	MGL

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Laboratory Report

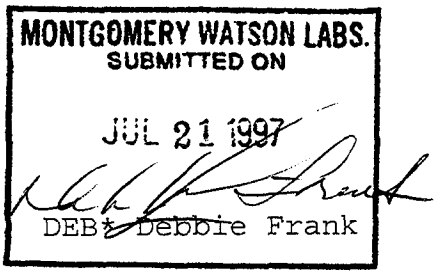
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



Report#: 35031
JPL

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
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Laboratory
Report
#35031

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

Samples Received
24-jun-1997 10:50:00

MW-972-78 (970625001) Sampled on 06/24/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
06/26/97	63793	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
06/26/97	63793	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
06/26/97	63793	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
06/26/97	63793	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1

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Report
#35031

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97	63793	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/26/97	63793	(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	86	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory Report #35031

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-77 (970625002) Sampled on 06/24/97								
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/25/97	63685	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	06/25/97	63833	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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#35031

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/25/97	63833	(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	95	% Rec		

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Laboratory Report #35031

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	110	% Rec		
MW-972-02 (970625003) Sampled on 06/24/97								
	06/26/97	63735	(ML/S2320B)	Alkalinity	220	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	8.48	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	84	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	7.66	meq/l	0.0010	1
	06/25/97	64040	(ML/EPA 300)	Chloride	67	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.441	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/25/97	63685	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/27/97		(ML/S2510B)	Specific Conductance	780	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	270	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	2.6	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	27	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	27	mg/l	1.0	1
	06/25/97	64042	(ML/EPA 300.0)	Nitrate-N by IC	10	mg/l	0.20	2
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/26/97		(ML/S4500H-B)	Lab pH	7.4	Units	0.0010	1
	06/25/97	64043	(ML/EPA 300)	Sulfate	71	mg/l	4.0	2
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	460	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/25/97	63833	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.8	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/25/97	63833	(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	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	112	% Rec		
MW-972-03 (970625004)			**Sampled on 06/24/97**					
	06/26/97	63735	(ML/S2320B)	Alkalinity	250	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	10.2	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	98	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	9.30	meq/l	0.0010	1
	06/25/97	64040	(ML/EPA 300)	Chloride	93	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.498	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/25/97	63685	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/27/97		(ML/S2510B)	Specific Conductance	950	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	870	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	305	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	3.2	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	34	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	35	mg/l	1.0	1
	06/25/97	64042	(ML/EPA 300.0)	Nitrate-N by IC	9.8	mg/l	0.20	2

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/26/97		(ML/S4500H-B)	Lab pH	7.4	Units	0.0010	1
	06/25/97	64043	(ML/EPA 300)	Sulfate	90	mg/l	4.0	2
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	580	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/25/97	63833	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.2	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/25/97	63833	(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	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	116	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-04 (970625005) Sampled on 06/24/97								
	06/26/97	63735	(ML/S2320B)	Alkalinity	265	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	12.4	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	140	mg/l	5.0	5
	07/10/97		(ML/SM1040)	Cation Sum	12.9	meq/l	0.0010	1
	06/25/97	64040	(ML/EPA 300)	Chloride	120	mg/l	3.0	3
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.841	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/25/97	63685	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/27/97		(ML/S2510B)	Specific Conductance	1170	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	325	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	3.4	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	44	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	50	mg/l	1.0	1
	06/25/97	64042	(ML/EPA 300.0)	Nitrate-N by IC	7.0	mg/l	0.30	3
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/26/97		(ML/S4500H-B)	Lab pH	7.6	Units	0.0010	1
	06/25/97	64043	(ML/EPA 300)	Sulfate	155	mg/l	6.0	3
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	740	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/25/97	63833	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/25/97	63833	(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	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	110	% Rec		
MW-972-05 (970625006)			**Sampled on**	**06/24/97**				
	06/26/97	63735	(ML/S2320B)	Alkalinity	170	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	9.11	meq/l	0.0010	1
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	87	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	8.13	meq/l	0.0010	1
	06/25/97	64040	(ML/EPA 300)	Chloride	78	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.086	mg/l	0.0010	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/25/97	63685	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/27/97		(ML/S2510B)	Specific Conductance	860	umho/cm	4.0	1
07/07/97	07/08/97	64200	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	210	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	2.2	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	31	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	27	mg/l	1.0	1
	06/25/97	64042	(ML/EPA 300.0)	Nitrate-N by IC	17	mg/l	0.20	2
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97		(ML/S4500H-B)	Lab pH	6.8	Units	0.0010	1
	06/25/97	64043	(ML/EPA 300)	Sulfate	110	mg/l	4.0	2
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	520	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/25/97	63833	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.6	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichloroethylene (TCE)	20	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/25/97	63833	(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	96	% Rec		
			(Surrogate)	Toluene-d8	109	% Rec		

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Group Comments

(Balance) The percent difference between the cations and the anions for sample MW-972-05 is 5.6%, matrix effect is suspected.

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Foster Wheeler Environmental, Inc

QC Batch #63685 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0501	100.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0515	103.0	(78.00 - 118.00)	2.8
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0523	104.6	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0530	106.0	(80.00 - 120.00)	1.3

QC Batch #63735 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	0.00
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	105	109.1	(80.00 - 120.00)	
MSD	Alkalinity	96.2	97	100.8	(80.00 - 120.00)	7.9

QC Batch #63793 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.22	105.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.08	102.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.37	109.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				

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

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MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.33	108.2	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.84	96.0	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	8.10	101.2	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.10	102.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.31	107.7	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.88	97.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.34	108.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.18	104.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.98	99.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.00	100.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.44	111.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.74	87.0	(70.00 - 130.00)

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MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.85	96.2	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.17	104.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.07	101.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.94	98.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.86	96.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.07	103.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.82	91.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.55	88.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.32	104.0	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.04	101.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.08	102.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.16	104.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)

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MBLK	trans-1,2-Dichloroethylene	ND
MBLK	trans-1,3-Dichloropropene	ND

QC Batch #63833 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.57	89.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.60	90.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.22	105.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.10	102.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.93	98.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.67	91.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.34	91.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	4.08	102.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				

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MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.97	99.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.54	88.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.50	87.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.85	121.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.02	100.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	5.09	127.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.93	123.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.44	72.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.16	104.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.77	119.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.37	109.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.90	122.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.49	87.2	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	1.90	95.0	(70.00 - 130.00)

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

MONTGOMERY WATSON LABORATORIES
555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
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Laboratory
QC Report
#35031

Foster Wheeler Environmental, Inc
(continued)

MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.18	109.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.64	91.0	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	9.42	117.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.76	94.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.65	116.3	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #63837 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	648	92.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

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

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Laboratory
QC Report
#35031

Foster Wheeler Environmental, Inc
(continued)

QC Batch #64040 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.4	105.6	(90.00 - 110.00)	1.5
MBLK	Chloride	ND				
MS	Chloride	25	26.0	104.0	(80.00 - 120.00)	
MSD	Chloride	25	26.8	107.2	(80.00 - 120.00)	3.0

QC Batch #64042 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.60	104.0	(90.00 - 110.00)	1.2
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.51	100.4	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	1.6

QC Batch #64043 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.9	101.8	(90.00 - 110.00)	
LCS2	Sulfate	50	51.8	103.6	(90.00 - 110.00)	1.8
MBLK	Sulfate	ND				
MS	Sulfate	50	54.8	109.6	(70.00 - 130.00)	
MSD	Sulfate	50	55.3	110.6	(70.00 - 130.00)	0.91

QC Batch #64066 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	19.2	96.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	21.0	105.0	(80.00 - 120.00)	9.0
MBLK	Potassium, Flame AA	ND				

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QC Report
#35031

Foster Wheeler Environmental, Inc
(continued)

MS	Potassium, Flame AA	20	20.2	101.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.3	101.5	(85.00 - 115.00)	0.49

QC Batch #64068 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	46.6	93.2	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.3	98.6	(90.00 - 110.00)	5.6
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	48.1	96.2	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	47.8	95.6	(85.00 - 115.00)	0.63

QC Batch #64070 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.9	99.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.9	99.5	(90.00 - 110.00)	0.00
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.6	98.0	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	19.3	96.5	(85.00 - 115.00)	1.5

QC Batch #64072 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	54.5	109.0	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	8.0
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	51.7	103.4	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	51.3	102.6	(85.00 - 115.00)	0.78

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

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QC Report
#35031

Foster Wheeler Environmental, Inc
(continued)

QC Batch #64196 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	0.98
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95.6	95.6	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95.9	95.9	(70.00 - 130.00)	0.31

QC Batch #64198 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	0.50
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	3.5

QC Batch #64200 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	476	95.2	(85.00 - 115.00)	2.7
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	475	95.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	436	87.2	(70.00 - 130.00)	8.6

QC Batch #64420 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0222	111.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

MS	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0212	106.0	(85.00 - 115.00)	1.9

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

MONTGOMERY WATSON LABORATORIES

July 29, 1997

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

Attention: Mark Cutler

Re: Report # 34943 (MW-972-70,-24,-69,-200,-64,-48,-27,-50)

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):
(Calcium) MW-972-24,-64,-48,-27,-50: The MS associated with these samples recovered outside the QC limits, at 82%. The RPD, with the MSD, was acceptable. This is contributed to matrix affect.
(VOC) MW-972-27: One of the surrogates analyzed, Toluene-d8, recovered above the QC limits. This Surrogate is not required by the Foster Wheeler QAPP nor by Method 524.2. The required Surrogate BFB is acceptable. (QIR MS-97-024)
Samples requiring dilution (with increased MRL's):
MW-972-50: Carbon Tetrachloride and Trichloroethylene
Method blanks with compounds detected:
(IRON) MW-972-24,-64,-48,-27,-50: There was a trace amount of iron in the Method Blank. The value, 66.9 ppb, is greater than 1/2 the MRL.
Other Comments:
A VOC of unknown description was detected in sample ID: MW-972-50
Tetrachloroethylene were detected in sample ID: MW-972-50
Trichloroethylene was detected in sample ID: MW-972-50
Chloroform was detected in sample ID: MW-972-24,-50
Toluene was detected in sample ID: MW-972-69
1,1-Dichloroethylene was detected in sample ID: MW-972-50
1,2-Dichloroethane was detected in sample ID: MW-972-50
Carbon Tetrachloride was detected in sample ID: MW-972-50
Trichlortrifluoroethane was detected in sample ID: MW-972-50

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 34943
Project#: JPL
Proj Mgr: Andy Eaton
Phone: (714) 444-5526

The following samples were received from you on 06/18/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Matrix / Tests Scheduled					Sample Date
970618119	MW-972-70	Water					06/18/97
		@VOASDWA					
970618120	MW-972-24	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970618121	MW-972-69	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	CR-VI	
970618122	MW-972-200	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	CR-VI	
970618123	MW-972-64	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970618124	MW-972-48	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970618125	MW-972-27	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970618126	MW-972-50	Water					06/18/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		

Test Acronym Description

Test Acronym	Description

41690 ✓
201725

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 34943
Project#: JPL
Proj Mgr: Andy Eaton
Phone: (714) 444-5526

Test Acronym Description

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

34943

NUMBER 2436

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL
OFS NO.: 1572.0218
PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA, CA
SAMPLER (Name): J. BRENNER
SAMPLER (Signature): J. B
LABORATORY: MONTGOMERY LABS
REPORTS TO BE SENT TO: MR. MARK CUTLER

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

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

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (EPA 524.2)	TOTAL Cr, PB, AS (EPA 6010/7000)	ANIONS	Hex. Cr.	
MW-972-70	0850	6/19/97	2	2x40ml	X			X				970618119
MW-972-24	0900		5	2x40ml 1x250ml 1x125ml 1x500ml	X			X	X	X	X	970618120
MW-972-69	0940		4	2x40ml 1x250ml 1x125ml	X			X	X		X	970618121
MW-972-64	0900		5	2x40ml 1x250ml 1x125ml 1x500ml	X			X*	X*	X	X*	970618122
MW-972-48	1020		5		X			X	X	X	X	970618124
MW-972-27	1155		5		X			X	X	X	X	970618125
MW-972-50	1415		5		X			X	X	X	X	970618126

> 200 *

* FIELD SAMPLE BUT NOT ON COC.

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY: FWENC	TIME: 1736	COMPANY: MONT. WATSON LABS	COMPANY	TIME	COMPANY
	6-18-97				

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FIELD COPY

NUMBER [illegible]

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL	OFS NO.: 1572.0218
PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA, CA	
SAMPLER (Name): J. BRENNER	SAMPLER (Signature): J. B—
LABORATORY: MONTGOMERY 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)	ANALYSES REQUIRED: VOCs (EPA 524.2)	TOTAL Cr, Pb, As (EPA 6010/7000)	ANIONS	HEX. Cr
MW-972-70	0850	6/13/97	2	2x40ml	X			X			
MW-972-24	0900	↓	5	2x40ml 1x250ml 1x125ml 1x500ml	X			X	X	X	X
MW-972-69	0940	↓	4	2x40ml 1x250ml 1x125ml	X			X	X		X
MW-972-64	0900	↓	5	2x40ml 1x250ml 1x125ml 1x500ml	X			X	X	X	X
MW-972-48	1020	↓	5	↓	X			X	X	X	X
MW-972-27	1155	↓	5	↓	X			X	X	X	X
MW-972-50	1415	↓	5	↓	X			X	X	X	X
MW-972-200								X	X		X

rec'd but not on COC

Call for

LABORATORY INSTRUCTIONS/COMMENTS: LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY	DATE	RECEIVED BY
[signature]	6-13-97	[signature]			
COMPANY: FWENC	TIME: 1736	COMPANY: MONT. WATSON LABS	COMPANY	TIME	COMPANY

Post-it® Fax Note 7671

To: Mark Cutler	Date: 6/23/97 # of pages ▶ 1
Co./Dept: FW Sup Fresh	From: Debbie L. Frank
Phone #: 714 444 5526	Co.: MW Labs
Fax #: 714 444 5560	Phone #: 818 568 6409
	Fax #: 818 568 6324

FAXED

F-2

SHIPPING COPY

Report Summary of positive results, PR34943

			Result	MDL	UNITS
Analyzed	970618119	MW-972-70			
Analyzed	970618120	MW-972-24			
06/25/97	Chloroform (Trichloromethane)		4.1	.500	UGL
06/23/97	Alkalinity		130	2.000	MGL
07/01/97	Anion Sum		3.39	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		160	.001	MGL
07/02/97	Calcium, Flame AA		25	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		0.656	.001	MGL
07/10/97	Cation Sum		3.33	.001	MEQL
06/20/97	Chloride		8.4	1.000	MGL
07/19/97	Iron, Total, ICAP/MS		320	******	UGL
06/23/97	Lab pH		7.8	.001	UNIT
07/02/97	Magnesium, Flame AA		16	1.000	MGL
06/20/97	Nitrate-N by IC		0.2	.100	MGL
07/02/97	Potassium, Flame AA		2.7	1.000	MGL
07/02/97	Sodium, Flame AA		16	1.000	MGL
06/20/97	Specific Conductance		300	4.000	UMHO
06/20/97	Sulfate		26	2.000	MGL
06/23/97	Total Dissolved Solids		200	10.000	MGL
Analyzed	970618121	MW-972-69			
06/24/97	Toluene		1.0	.500	UGL
Analyzed	970618122	MW-972-200			
Analyzed	970618123	MW-972-64			
06/23/97	Alkalinity		180	2.000	MGL
07/01/97	Anion Sum		5.04	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		220	.001	MGL
07/02/97	Calcium, Flame AA		52	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		1.14	.001	MGL
07/10/97	Cation Sum		5.09	.001	MEQL
06/20/97	Chloride		17	1.000	MGL
07/19/97	Iron, Total, ICAP/MS		100	******	UGL
06/23/97	Lab pH		7.9	.001	UNIT
07/02/97	Magnesium, Flame AA		16	1.000	MGL
06/20/97	Nitrate-N by IC		1.5	.100	MGL
07/02/97	Potassium, Flame AA		3.5	1.000	MGL
07/02/97	Sodium, Flame AA		25	1.000	MGL
06/20/97	Specific Conductance		470	4.000	UMHO
06/20/97	Sulfate		41	2.000	MGL
06/23/97	Total Dissolved Solids		300	10.000	MGL
Analyzed	970618124	MW-972-48			
06/23/97	Alkalinity		215	2.000	MGL
07/01/97	Anion Sum		5.23	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		260	.001	MGL
07/02/97	Calcium, Flame AA		57	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		1.34	.001	MGL

07/10/97	Cation Sum	5.20	.001	MEQL
06/20/97	Chloride	16	1.000	MGL
07/19/97	Iron, Total, ICAP/MS	270	******	UGL
06/23/97	Lab pH	7.9	.001	UNIT
07/02/97	Magnesium, Flame AA	17	1.000	MGL
07/02/97	Potassium, Flame AA	3.3	1.000	MGL
07/02/97	Sodium, Flame AA	20	1.000	MGL
06/20/97	Specific Conductance	475	4.000	UMHO
06/20/97	Sulfate	23	2.000	MGL
06/23/97	Total Dissolved Solids	290	10.000	MGL
Analyzed	970618125 MW-972-27			
06/23/97	Alkalinity	210	2.000	MGL
07/01/97	Anion Sum	5.17	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	255	.001	MGL
07/02/97	Calcium, Flame AA	54	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	0.416	.001	MGL
07/10/97	Cation Sum	5.10	.001	MEQL
06/20/97	Chloride	14	1.000	MGL
07/19/97	Iron, Total, ICAP/MS	150	******	UGL
06/23/97	Lab pH	7.4	.001	UNIT
07/02/97	Magnesium, Flame AA	17	1.000	MGL
06/20/97	Nitrate-N by IC	0.4	.100	MGL
07/02/97	Potassium, Flame AA	3.3	1.000	MGL
07/02/97	Sodium, Flame AA	21	1.000	MGL
06/20/97	Specific Conductance	470	4.000	UMHO
06/20/97	Sulfate	26	2.000	MGL
06/23/97	Total Dissolved Solids	280	10.000	MGL
Analyzed	970618126 MW-972-50			
06/24/97	1,1-Dichloroethylene	1.0	.500	UGL
06/24/97	1,2-Dichloroethane	0.8	.500	UGL
06/25/97	Carbon Tetrachloride	39	2.500	UGL
06/24/97	Chloroform (Trichloromethane)	11	.500	UGL
06/24/97	Tetrachloroethylene (PCE)	0.7	.500	UGL
06/25/97	Trichloroethylene (TCE)	23	2.500	UGL
06/24/97	Trichlorotrifluoroethane(Freon	4.1	.500	UGL
06/23/97	Alkalinity	145	2.000	MGL
07/01/97	Anion Sum	5.04	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated	175	.001	MGL
07/02/97	Calcium, Flame AA	54	1.000	MGL
07/01/97	Carbonate as CO3, Calculated	0.570	.001	MGL
07/10/97	Cation Sum	4.91	.001	MEQL
06/20/97	Chloride	24	1.000	MGL
07/19/97	Iron, Total, ICAP/MS	160	******	UGL
06/23/97	Lab pH	7.7	.001	UNIT
07/02/97	Magnesium, Flame AA	17	1.000	MGL
06/20/97	Nitrate-N by IC	6.5	.100	MGL
07/02/97	Potassium, Flame AA	2.8	1.000	MGL
07/02/97	Sodium, Flame AA	17	1.000	MGL
06/20/97	Specific Conductance	475	4.000	UMHO
06/20/97	Sulfate	48	2.000	MGL
06/23/97	Total Dissolved Solids	300	10.000	MGL

fog

QUALITY INVESTIGATION REPORT

QIR No. MS-97-024

Analysis Date: 6-24-97

Analysis: 524

Extraction Date: —

Matrix: (

Analyst: COL

Instrument ID: GCMSD

SAMPLES IMPACTED

	Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
①	970620021	MW-24-2	Foster wheeler			
②	970618125	MW-972-27	↓			

Brief Description: (include reason for non-compliance)

① Toluene-d8, one of the surrogates, recovered above QC limit at 122% (QC limits 80-120%)

② Toluene-d8 failed high. (137% recovery)

Action Taken: ① Could not locate second (backup) vials after searching for through all FW VOA samples (done & backup).

② Sample rerun on 6/25/97 twice and Toluene-d8 recovery is still high (121% and 135%)

Impact on Data Quality: minimal. None Toluene d8 not required for method 524.2 The required surrogate, BFB, is acceptable (1,2-DCA-d4 ~~The surrogate/representing~~)

① chloroform detected at 3.8 ppb

② Sample is ND

(This surrogate not listed in Foster Wheeler QAPP) chloroform is the

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

Other:

Annotation: as above in impact on data Quality.

Client Contact: C. Rice annotate report - data not qualified 7/2/97

Extraction:		Date:	
Analyst:	Cecilia Lei	Date:	6-25-97
Group Leader:	Cecilia Lei	Date:	6-25-97
QA Coordinator:	[signature]	Date:	6-26-97
Project Manager:	[signature]	Date:	7/2/97

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

Report#: 34943
JPL

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Report
#34943

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

Samples Received
18-jun-1997 17:59:37

MW-972-70 (970618119) Sampled on 06/18/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	113	% Rec		

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Laboratory
Report
#34943

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-24 (970618120) Sampled on 06/18/97								
	06/23/97	63601	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	3.39	meq/l	0.0010	1
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	25	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	3.33	meq/l	0.0010	1
	06/20/97	63572	(ML/EPA 300)	Chloride	8.4	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.656	mg/l	0.0010	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/20/97		(ML/S2510B)	Specific Conductance	300	umho/cm	4.0	1
06/24/97	07/19/97	64451	(EPA/ML 200.8)	Iron, Total, ICAP/MS	320	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	160	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	2.7	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	16	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	16	mg/l	1.0	1
	06/20/97	63577	(ML/EPA 300.0)	Nitrate-N by IC	0.2	mg/l	0.10	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/23/97		(ML/S4500H-B)	Lab pH	7.8	Units	0.0010	1
	06/20/97	63579	(ML/EPA 300)	Sulfate	26	mg/l	2.0	1
	06/23/97	63634	(ML/S2540C)	Total Dissolved Solids	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/25/97	63833	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.1	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/25/97	63833	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/25/97	63833	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/25/97	63833	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/25/97	63833	(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	91	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	118	% Rec		
MW-972-69 (970618121)			**Sampled on 06/18/97**					
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	1.0	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	114	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	106	% Rec		

MW-972-200 (970618122) Sampled on 06/18/97

06/24/97	06/27/97	64174	(S3113B/E200.9)	**Arsenic, Total, GF**	ND	mg/l	0.005	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	**Chromium, Total, ICAP/MS**	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	**Hexavalent chromium**	ND	mg/l	0.005	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	**Lead, Total, ICAP/MS**	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	110	% Rec		
MW-972-64 (970618123)			**Sampled on**	**06/18/97**				
	06/23/97	63601	(ML/S2320B)	Alkalinity	180	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	5.04	meq/l	0.0010	1
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	52	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	5.09	meq/l	0.0010	1
	06/20/97	63572	(ML/EPA 300)	Chloride	17	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.14	mg/l	0.0010	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/20/97		(ML/S2510B)	Specific Conductance	470	umho/cm	4.0	1
06/24/97	07/19/97	64451	(EPA/ML 200.8)	Iron, Total, ICAP/MS	100	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	220	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	3.5	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	16	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	25	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/20/97	63577	(ML/EPA 300.0)	Nitrate-N by IC	1.5	mg/l	0.10	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/23/97		(ML/S4500H-B)	Lab pH	7.9	Units	0.0010	1
	06/20/97	63579	(ML/EPA 300)	Sulfate	41	mg/l	2.0	1
	06/23/97	63634	(ML/S2540C)	Total Dissolved Solids	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	116	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-48 (970618124) Sampled on 06/18/97								
	06/23/97	63601	(ML/S2320B)	Alkalinity	215	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	5.23	meq/l	0.0010	1
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	57	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	5.20	meq/l	0.0010	1
	06/20/97	63572	(ML/EPA 300)	Chloride	16	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.34	mg/l	0.0010	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/20/97		(ML/S2510B)	Specific Conductance	475	umho/cm	4.0	1
06/24/97	07/19/97	64451	(EPA/ML 200.8)	Iron, Total, ICAP/MS	270	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	260	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	3.3	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	17	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	20	mg/l	1.0	1
	06/20/97	63577	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/23/97		(ML/S4500H-B)	Lab pH	7.9	Units	0.0010	1
	06/20/97	63579	(ML/EPA 300)	Sulfate	23	mg/l	2.0	1
	06/23/97	63634	(ML/S2540C)	Total Dissolved Solids	290	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	110	% Rec		
MW-972-27 (970618125)			**Sampled on**	**06/18/97**				
	06/23/97	63601	(ML/S2320B)	Alkalinity	210	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	5.17	meq/l	0.0010	1
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	54	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	5.10	meq/l	0.0010	1
	06/20/97	63572	(ML/EPA 300)	Chloride	14	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.416	mg/l	0.0010	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/20/97		(ML/S2510B)	Specific Conductance	470	umho/cm	4.0	1
06/24/97	07/19/97	64451	(EPA/ML 200.8)	Iron, Total, ICAP/MS	150	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	255	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	3.3	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	17	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	21	mg/l	1.0	1
	06/20/97	63577	(ML/EPA 300.0)	Nitrate-N by IC	0.4	mg/l	0.10	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/23/97		(ML/S4500H-B)	Lab pH	7.4	Units	0.0010	1
	06/20/97	63579	(ML/EPA 300)	Sulfate	26	mg/l	2.0	1
	06/23/97	63634	(ML/S2540C)	Total Dissolved Solids	280	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	95	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	137	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-50 (970618126) Sampled on 06/18/97								
	06/23/97	63601	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	5.04	meq/l	0.0010	1
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	54	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	4.91	meq/l	0.0010	1
	06/20/97	63572	(ML/EPA 300)	Chloride	24	mg/l	1.0	1
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.570	mg/l	0.0010	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/20/97		(ML/S2510B)	Specific Conductance	475	umho/cm	4.0	1
06/24/97	07/19/97	64451	(EPA/ML 200.8)	Iron, Total, ICAP/MS	160	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	175	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	2.8	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	17	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	17	mg/l	1.0	1
	06/20/97	63577	(ML/EPA 300.0)	Nitrate-N by IC	6.5	mg/l	0.10	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/23/97		(ML/S4500H-B)	Lab pH	7.7	Units	0.0010	1
	06/20/97	63579	(ML/EPA 300)	Sulfate	48	mg/l	2.0	1
	06/23/97	63634	(ML/S2540C)	Total Dissolved Solids	300	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/24/97	63744	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloroethylene	1.0	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloroethane	0.8	ug/l	0.50	1

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	06/24/97	63744	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/25/97	63744	(ML/EPA 524.2)	Carbon Tetrachloride	39	ug/l	2.5	5
	06/24/97	63744	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroform (Trichloromethane)	11	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/24/97	63744	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/24/97	63744	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/25/97	63744	(ML/EPA 524.2)	Trichloroethylene (TCE)	23	ug/l	2.5	5
	06/24/97	63744	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	4.1	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/24/97	63744	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown (RT= 21:27 to 24:26)	10	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	86	% Rec		
			(Surrogate)	Toluene-d8	113	% Rec		

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Group Comments

(Calcium) The MS recovery was low bias at 82%. Sample matrix effect is suspected.
(Iron) There was a trace hit for Iron in the prep blank at 66.9 ppb. The trace hit is lower than the RL, no action was taken.

(970618125)
@VOASDWA
This sample was analyzed twice and toluene-d8, one of the surrogates, recovered above QC limit both times.
Reference QIR-MS-97-024.

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QC Batch #63480 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0537	107.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0530	106.0	(78.00 - 118.00)	1.3
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0515	103.0	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0522	104.4	(80.00 - 120.00)	1.4

QC Batch #63572 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	25.3	101.2	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	2.3
MBLK	Chloride	ND				
MS	Chloride	25	26.6	106.4	(80.00 - 120.00)	
MSD	Chloride	25	26.6	106.4	(80.00 - 120.00)	0.00

QC Batch #63577 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.58	103.2	(90.00 - 110.00)	2.4
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.56	102.4	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	0.39

QC Batch #63579 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	49.4	98.8	(90.00 - 110.00)	
LCS2	Sulfate	50	50.6	101.2	(90.00 - 110.00)	2.4
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(70.00 - 130.00)	
MSD	Sulfate	50	52.5	105.0	(70.00 - 130.00)	0.38

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

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QC Batch #63601 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	105	109.1	(90.00 - 110.00)	1.9
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	101	105.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	92.3	95.9	(80.00 - 120.00)	9.0

QC Batch #63634 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	652	93.1	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #63744 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.62	90.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.18	104.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.53	113.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.15	103.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.80	95.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.81	95.2	(70.00 - 130.00)	

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

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MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.08	102.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.95	98.8	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.92	99.0	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.14	103.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.13	103.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.98	99.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.61	90.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.68	117.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.27	106.7	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.12	103.0	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.95	123.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.75	118.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			

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

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Laboratory
QC Report
#34943

Foster Wheeler Environmental, Inc
(continued)

LCS1	Fluorotrichloromethane-Freon11	2	1.44	72.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.54	113.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.73	118.3	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.67	116.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.57	89.2	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	1.87	93.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.02	101.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.71	92.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	9.18	114.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.96	99.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.58	114.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.82	95.5	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			

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

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

LCS1	trans-1,2-Dichloroethylene	4	4.11	102.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #63833 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.57	89.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.60	90.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.22	105.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.10	102.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.93	98.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.67	91.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.34	91.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	4.08	102.0	(70.00 - 130.00)	
MBLK	Benzene	ND				

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Laboratory
QC Report
#34943

Foster Wheeler Environmental, Inc
(continued)

MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.97	99.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.54	88.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.50	87.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.85	121.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.02	100.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	5.09	127.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.93	123.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.44	72.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.16	104.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.77	119.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.37	109.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.90	122.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.49	87.2	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	2	1.90	95.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.18	109.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.64	91.0	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	9.42	117.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.76	94.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.65	116.3	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #64065 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.6	103.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.9	104.5	(80.00 - 120.00)	1.4
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.2	101.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.5	103.0	(85.00 - 115.00)	1.5

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Laboratory
QC Report
#34943

Foster Wheeler Environmental, Inc
(continued)

QC Batch #64067 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	51.0	102.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	1.6
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.6	95.2	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	47.3	95.0	(85.00 - 115.00)	0.63

QC Batch #64069 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.0	100.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	20.1	100.5	(90.00 - 110.00)	0.50
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.3	96.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	19.6	98.0	(85.00 - 115.00)	1.5

QC Batch #64071 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	54.8	109.6	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	54.4	108.8	(90.00 - 110.00)	0.73
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	41.0	82.0	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	42.3	85.0	(85.00 - 115.00)	3.1

QC Batch #64174 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0202	101.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	3.5
MBLK	Arsenic, Total, GF	ND				

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Foster Wheeler Environmental, Inc
(continued)

MS	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	4.4

QC Batch #64195 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	106	106.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.95
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	99.9	99.9	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99.4	99.4	(70.00 - 130.00)	0.50

QC Batch #64197 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.1	100.5	(85.00 - 115.00)	0.99
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	22.1	110.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.5	107.5	(70.00 - 130.00)	2.8

QC Batch #64451 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	488	97.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	506	101.2	(85.00 - 115.00)	3.6
MBLK	Iron, Total, ICAP/MS	ND	66.9			
MS	Iron, Total, ICAP/MS	500	473	94.6	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	5.5

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

MONTGOMERY WATSON LABORATORIES

July 29, 1997

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

Attention: Mark Cutler

Re: Report # 34972 (MW-972-72,-71,-21)

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):
(Nitrate) MW-972-21: The MS/MSD performed on this sample recovered outside the QC limits, at 110.6/110.8% Respectively. The RPD was acceptable.
(Calcium) MW-972-21: The MS performed on this sample recovered outside the QC limits, at 82%. The RPD, with the MSD, was acceptable. This is contributed to matrix affect.
Samples requiring dilution (with increased MRL's):
MW-972-21: Chloride, Nitrate, and Sulfate.
Method blanks with compounds detected:
(IRON) MW-972-21: There was a trace amount of iron in the Method Blank. The value, 66.9 ppb, is greater than 1/2 the MRL.
Other Comments:
Chloroform, Trichloroethylene, and Tetrachloroethylene were detected in sample ID: MW-972-21

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 34972
Project#: JPL
Proj Mgr: Andy Eaton
Phone: (714) 444-5526

The following samples were received from you on 06/19/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
970619136	MW-972-72	@VOASDWA	Water	06/19/97
970619137	MW-972-71	@VOASDWA CR-MS PB-MS AS-GF CR-VI	Water	06/19/97
970619138	MW-972-21	@VOASDWA CR-MS PB-MS AS-GF TDS CATION ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K-FL NA-FL MG-FL CA-FL CR-VI	Water	06/19/97

Test Acronym Description

Test Acronym	Description
@VOASDWA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA-FL	Calcium, Flame AA
CATION	Cation Sum
CL	Chloride
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K-FL	Potassium, Flame AA
MG-FL	Magnesium, Flame AA
NA-FL	Sodium, Flame AA
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH

4639 SOFA
201725 CLIENT

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 34972
Project#: JPL
Proj Mgr: Andy Eaton
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
SO4	Sulfate
TDS	Total Dissolved Solids

34972

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Project: JPL | OFS No.: 1572.0218

Project Address: 4800 OAK GROVE DR PASADENA CA

Sampler (Name): J BENNER | Sampler: (Signature):

Laboratory: MONTGOMERY LABS

Reports to Be Sent to: MR MARK CUTLER

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

Time Required: NORMAL [X] ____ DAYS; RUSH [ ] ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (EPA 524.2)	TCLP C-Pb, As (EPA 6010/7000)	Mass Analysis	Hex. Chromium					
MW-972-72	1535	6/19/97	2	2x40ml	X			X				9706191	36			
MW-972-71	1545	↓	4	2x40ml 1x250ml 1x125ml	X			X	X		X	9706191	37			
MW-972-21	1625	↓	5		X			X	X	X	X	9706191	38			

LABORATORY INSTRUCTIONS/COMMENTS:

LEVEL IV QA/QC

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	6-19-97	T. Mit.			
Company: FLUOR	Time: 1745	Company: MONTGOMERY WATSON	Company:	Time:	Company:

F-2

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

Report Summary of positive results, PR34972

			Result	MDL	UNITS
Analyzed	970619136	MW-972-72			
Analyzed	970619137	MW-972-71			
Analyzed	970619138	MW-972-21			
06/23/97	Chloroform (Trichloromethane)		1.3	.500	UGL
06/23/97	Tetrachloroethylene (PCE)		0.7	.500	UGL
06/23/97	Trichloroethylene (TCE)		11	.500	UGL
06/23/97	Alkalinity		195	2.000	MGL
07/01/97	Anion Sum		4.94	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		235	.001	MGL
07/02/97	Calcium, Flame AA		49	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		1.53	.001	MGL
07/10/97	Cation Sum		5.04	.001	MEQL
06/20/97	Chloride		12	2.000	MGL
07/19/97	Iron, Total, ICAP/MS		720	******	UGL
06/23/97	Lab pH		8.0	.001	UNIT
07/02/97	Magnesium, Flame AA		13	1.000	MGL
06/20/97	Nitrate-N by IC		2.0	.200	MGL
07/02/97	Potassium, Flame AA		1.8	1.000	MGL
07/02/97	Sodium, Flame AA		34	1.000	MGL
06/20/97	Specific Conductance		435	4.000	UMHO
06/20/97	Sulfate		27	4.000	MGL
06/23/97	Total Dissolved Solids		280	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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

Laboratory Report

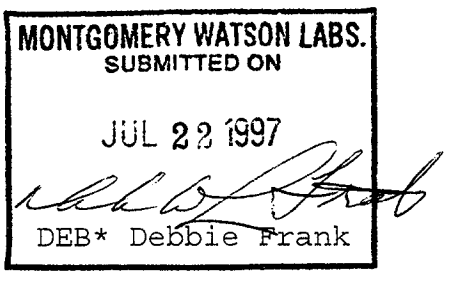
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



Report#: 34972
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report #34972

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

Samples Received
19-jun-1997 17:52:32

MW-972-72 (970619136) Sampled on 06/19/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/23/97	63655	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/23/97	63655	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/23/97	63655	(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	95	% Rec		
			(Surrogate)	Toluene-d8	110	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-71 (970619137) Sampled on 06/19/97								
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	06/23/97	63655	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/23/97	63655	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/23/97	63655	(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	95	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	108	% Rec		
MW-972-21 (970619138) Sampled on 06/19/97								
	06/23/97	63601	(ML/S2320B)	Alkalinity	195	mg/l	2.0	1
	07/01/97		(ML/SM1040)	Anion Sum	4.94	meq/l	0.0010	1
06/24/97	06/27/97	64174	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64071	(ML/S3111B)	Calcium, Flame AA	49	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	5.04	meq/l	0.0010	1
	06/20/97	63590	(ML/EPA 300)	Chloride	12	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.53	mg/l	0.0010	1
06/24/97	07/08/97	64195	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/18/97	63480	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/20/97		(ML/S2510B)	Specific Conductance	435	umho/cm	4.0	1
06/24/97	07/19/97	64451	(EPA/ML 200.8)	Iron, Total, ICAP/MS	720	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	235	mg/l	0.0010	1
	07/02/97	64065	(ML/S3111B)	Potassium, Flame AA	1.8	mg/l	1.0	1
	07/02/97	64069	(ML/S3111B)	Magnesium, Flame AA	13	mg/l	1.0	1
	07/02/97	64067	(ML/S3111B)	Sodium, Flame AA	34	mg/l	1.0	1
	06/20/97	63593	(ML/EPA 300.0)	Nitrate-N by IC	2.0	mg/l	0.20	2
06/24/97	07/08/97	64197	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/23/97		(ML/S4500H-B)	Lab pH	8.0	Units	0.0010	1
	06/20/97	63594	(ML/EPA 300)	Sulfate	27	mg/l	4.0	2
	06/23/97	63634	(ML/S2540C)	Total Dissolved Solids	280	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/23/97	63655	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/23/97	63655	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.3	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/23/97	63655	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/23/97	63655	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Trichloroethylene (TCE)	11	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/23/97	63655	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/23/97	63655	(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	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	109	% Rec		

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Report
Comments
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Group Comments

(Calcium) The MS recovery was low bias at 82%. Sample matrix effect is suspected.
(Iron) There was a trace hit in the prep blank at 66.9 ppb. The trace hit is lower than the RL, no action was taken.

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Foster Wheeler Environmental, Inc

QC Batch #63480 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0537	107.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0530	106.0	(78.00 - 118.00)	1.3
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0515	103.0	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0522	104.4	(80.00 - 120.00)	1.4

QC Batch #63590 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	25.8	103.2	(90.00 - 110.00)	
LCS2	Chloride	25	26.5	106.0	(90.00 - 110.00)	2.7
MBLK	Chloride	ND				
MS	Chloride	25	27.7	110.8	(80.00 - 120.00)	
MSD	Chloride	25	27.7	110.8	(80.00 - 120.00)	0.00

QC Batch #63593 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.64	105.6	(90.00 - 110.00)	2.7
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.76	110.4	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.77	110.8	(90.00 - 110.00)	0.36

QC Batch #63594 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.8	101.6	(90.00 - 110.00)	
LCS2	Sulfate	50	51.8	103.6	(90.00 - 110.00)	1.9
MBLK	Sulfate	ND				
MS	Sulfate	50	55.0	110.0	(70.00 - 130.00)	
MSD	Sulfate	50	55.1	110.2	(70.00 - 130.00)	0.18

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

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QC Batch #63601 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	105	109.1	(90.00 - 110.00)	1.9
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	101	105.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	92.3	95.9	(80.00 - 120.00)	9.0

QC Batch #63634 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	652	93.1	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #63655 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.13	103.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.11	102.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.00	100.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.51	112.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.53	113.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.12	103.0	(70.00 - 130.00)	

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MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.38	109.5	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.82	95.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.92	99.0	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.21	105.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.20	105.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.83	95.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.15	103.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.27	106.7	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.04	101.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.46	111.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.48	112.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.49	112.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			

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LCS1	Fluorotrichloromethane-Freon11	2	1.80	90.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.82	95.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.43	110.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.13	103.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.29	107.2	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.80	95.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.14	107.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.12	106.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.97	99.2	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.84	110.5	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.15	103.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.41	110.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.10	102.5	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			

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LCS1	trans-1,2-Dichloroethylene	4	4.50	112.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #64065 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.6	103.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.9	104.5	(80.00 - 120.00)	1.4
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.2	101.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.5	103.0	(85.00 - 115.00)	1.5

QC Batch #64067 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	51.0	102.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	1.6
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.6	95.2	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	47.3	95.0	(85.00 - 115.00)	0.63

QC Batch #64069 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.0	100.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	20.1	100.5	(90.00 - 110.00)	0.50
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.3	96.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	19.6	98.0	(85.00 - 115.00)	1.5

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QC Batch #64071 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	54.8	109.6	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	54.4	108.8	(90.00 - 110.00)	0.73
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	41.0	82.0	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	42.3	85.0	(85.00 - 115.00)	3.1

QC Batch #64174 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0202	101.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	3.5
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	4.4

QC Batch #64195 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	106	106.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.95
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	99.9	99.9	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99.4	99.4	(70.00 - 130.00)	0.50

QC Batch #64197 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.1	100.5	(85.00 - 115.00)	0.99
MBLK	Lead, Total, ICAP/MS	ND				

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MS	Lead, Total, ICAP/MS	20	22.1	110.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.5	107.5	(70.00 - 130.00)	2.8

QC Batch #64451 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	488	97.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	506	101.2	(85.00 - 115.00)	3.6
MBLK	Iron, Total, ICAP/MS	ND	66.9			
MS	Iron, Total, ICAP/MS	500	473	94.6	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	5.5

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July 29, 1997

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

Attention: Mark Cutler

Re: Report # 35064 (MW-972-80,-79,-01)

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):
MW-972-01: Chloride, Nitrate, and Sulfate.
Method blanks with compounds detected:
NONE
Other Comments:
Tetrachloroethylene were detected in sample ID: MW-972-01

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Past due 5500 from 4/2 letter sent 6/12

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35064
Project#: JPL
Proj Mgr: Andy Eaton
Phone: (714) 444-5526

The following samples were received from you on 06/25/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
970625159	MW-972-80	@VOASDWA	Water	06/25/97
970625160	MW-972-79	@VOASDWA CR-MS PB-MS AS-GF CR-VI	Water	06/25/97
970625161	MW-972-01	@VOASDWA CR-MS PB-MS AS-GF TDS CATION ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K-FL NA-FL MG-FL CA-FL CR-VI	Water	06/25/97

Test Acronym Description

Test Acronym	Description
@VOASDWA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA-FL	Calcium, Flame AA
CATION	Cation Sum
CL	Chloride
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K-FL	Potassium, Flame AA
MG-FL	Magnesium, Flame AA
NA-FL	Sodium, Flame AA
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH

4644
20725 CLIENTS

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35064
Project#: JPL
Proj Mgr: Andy Eaton
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
SO4	Sulfate
TDS	Total Dissolved Solids

NUMBER 2460

35064

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL	OFS NO.: 1572
PROJECT ADDRESS: 4800 OAK GROVE DRIVE, PASADENA, CA	
SAMPLER (Name): T. CHOI	SAMPLER (Signature):
LABORATORY: MONTGOMERY WATSON	
REPORTS TO BE SENT TO: MARK CUTLER	

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

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

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (EPA 524.2)	TOTAL (EPA 6010/7000) Cr, Pb, As	ANIONS	HEXAVALENT CHROME	
MW-972-80	1609	6-25-97	2	2x40mL	X			X				970625159
MW-972-79	1556	6-25-97	4	2x40mL, 1x250mL, 1x125mL	X			X	X		X	970625160
MW-972-01	1710	6-25-97	5	2x40mL, 1x250mL, 1x125mL, 1x500mL	X			X	X	X	X	970625161

LABORATORY INSTRUCTIONS/COMMENTS

Att LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY: FWENC	TIME: 1825	COMPANY: MONTGOMERY WATSON	COMPANY	TIME	COMPANY

F-2

FIELD COPY

Report Summary of positive results, PR35064

			Result	MDL	UNITS
Analyzed	970625159	MW-972-80			
Analyzed	970625160	MW-972-79			
Analyzed	970625161	MW-972-01			
06/26/97	Tetrachloroethylene (PCE)		3.0	.500	UGL
06/26/97	Alkalinity		210	2.000	MGL
07/07/97	Anion Sum		8.37	.001	MEQL
07/01/97	Bicarbonate as HCO3,calculated		255	.001	MGL
07/02/97	Calcium, Flame AA		81	1.000	MGL
07/01/97	Carbonate as CO3, Calculated		0.524	.001	MGL
07/10/97	Cation Sum		7.69	.001	MEQL
06/25/97	Chloride		64	2.000	MGL
07/19/97	Iron, Total, ICAP/MS		1500	******	UGL
06/26/97	Lab pH		7.5	.001	UNIT
07/02/97	Magnesium, Flame AA		28	1.000	MGL
06/25/97	Nitrate-N by IC		11	.200	MGL
07/02/97	Potassium, Flame AA		2.9	1.000	MGL
07/02/97	Sodium, Flame AA		29	1.000	MGL
06/27/97	Specific Conductance		770	4.000	UMHO
06/25/97	Sulfate		76	4.000	MGL
06/27/97	Total Dissolved Solids		510	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

Report#: 35064
JPL

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Laboratory
Report
#35064

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

Samples Received
25-jun-1997 18:32:06

MW-972-80 (970625159) Sampled on 06/25/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97	63793	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#35064

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97	63793	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/26/97	63793	(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	114	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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Laboratory
Report
#35064

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-79 (970625160)			**Sampled on 06/25/97**					
07/07/97	07/08/97	64420	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
07/07/97	07/08/97	64196	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/26/97	63723	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
07/07/97	07/08/97	64198	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	06/26/97	63793	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Laboratory
Report
#35064

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97	63793	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524 2)	Bromochloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/26/97	63793	(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	90	% Rec		

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Laboratory Report #35064

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	102	% Rec		
MW-972-01 (970625161) Sampled on 06/25/97								
	06/26/97	63735	(ML/S2320B)	Alkalinity	210	mg/l	2.0	1
	07/07/97		(ML/SM1040)	Anion Sum	8.37	meq/l	0.0010	1
07/16/97	07/17/97	64449	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/02/97	64072	(ML/S3111B)	Calcium, Flame AA	81	mg/l	1.0	1
	07/10/97		(ML/SM1040)	Cation Sum	7.69	meq/l	0.0010	1
	06/25/97	64040	(ML/EPA 300)	Chloride	64	mg/l	2.0	2
	07/01/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.524	mg/l	0.0010	1
07/16/97	07/19/97	64453	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/26/97	63723	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	06/27/97		(ML/S2510B)	Specific Conductance	770	umho/cm	4.0	1
07/16/97	07/19/97	64454	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1500	ug/l	100	1
	07/01/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	255	mg/l	0.0010	1
	07/02/97	64066	(ML/S3111B)	Potassium, Flame AA	2.9	mg/l	1.0	1
	07/02/97	64070	(ML/S3111B)	Magnesium, Flame AA	28	mg/l	1.0	1
	07/02/97	64068	(ML/S3111B)	Sodium, Flame AA	29	mg/l	1.0	1
	06/25/97	64042	(ML/EPA 300.0)	Nitrate-N by IC	11	mg/l	0.20	2
07/16/97	07/19/97	64456	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/26/97		(ML/S4500H-B)	Lab pH	7.5	Units	0.0010	1
	06/25/97	64043	(ML/EPA 300)	Sulfate	76	mg/l	4.0	2
	06/27/97	63837	(ML/S2540C)	Total Dissolved Solids	510	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	06/26/97	63793	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97	63793	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	06/26/97	63793	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	06/26/97	63793	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	3.0	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/26/97	63793	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/26/97	63793	(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	86	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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QC Batch #63723 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0519	103.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0495	99.0	(78.00 - 118.00)	4.7
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0472	94.4	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0511	102.2	(80.00 - 120.00)	7.9

QC Batch #63735 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	0.00
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	105	109.1	(80.00 - 120.00)	
MSD	Alkalinity	96.2	97	100.8	(80.00 - 120.00)	7.9

QC Batch #63793 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.22	105.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.08	102.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.37	109.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				

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MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.33	108.2	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.84	96.0	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	8.10	101.2	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.10	102.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.31	107.7	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.88	97.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.34	108.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.18	104.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.98	99.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.00	100.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.44	111.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.74	87.0	(70.00 - 130.00)

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MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.85	96.2	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.17	104.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.07	101.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.94	98.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.86	96.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.07	103.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.82	91.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.55	88.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.32	104.0	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.04	101.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.08	102.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.16	104.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)

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MBLK	trans-1,2-Dichloroethylene	ND
MBLK	trans-1,3-Dichloropropene	ND

QC Batch #63837 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	648	92.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #64040 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.4	105.6	(90.00 - 110.00)	1.5
MBLK	Chloride	ND				
MS	Chloride	25	26.0	104.0	(80.00 - 120.00)	
MSD	Chloride	25	26.8	107.2	(80.00 - 120.00)	3.0

QC Batch #64042 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.60	104.0	(90.00 - 110.00)	1.2
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.51	100.4	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	1.6

QC Batch #64043 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.9	101.8	(90.00 - 110.00)	
LCS2	Sulfate	50	51.8	103.6	(90.00 - 110.00)	1.8
MBLK	Sulfate	ND				

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MS	Sulfate	50	54.8	109.6	(70.00 - 130.00)	
MSD	Sulfate	50	55.3	110.6	(70.00 - 130.00)	0.91

QC Batch #64066 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	19.2	96.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	21.0	105.0	(80.00 - 120.00)	9.0
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.2	101.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.3	101.5	(85.00 - 115.00)	0.49

QC Batch #64068 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	46.6	93.2	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.3	98.6	(90.00 - 110.00)	5.6
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	48.1	96.2	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	47.8	95.6	(85.00 - 115.00)	0.63

QC Batch #64070 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.9	99.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.9	99.5	(90.00 - 110.00)	0.00
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.6	98.0	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	19.3	96.5	(85.00 - 115.00)	1.5

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QC Batch #64072 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	54.5	109.0	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	8.0
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	51.7	103.4	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	51.3	102.6	(85.00 - 115.00)	0.78

QC Batch #64196 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	0.98
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95.6	95.6	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95.9	95.9	(70.00 - 130.00)	0.31

QC Batch #64198 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	(85.00 - 115.00)	0.50
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	3.5

QC Batch #64420 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0222	111.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				

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

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Pasadena, California 91101
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Foster Wheeler Environmental, Inc
(continued)

MS	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0212	106.0	(85.00 - 115.00)	1.9

QC Batch #64449 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0193	96.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.019	95.0	(85.00 - 115.00)	1.6
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0194	97.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	14

QC Batch #64453 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.5	95.5	(85.00 - 115.00)	0.31
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	89.2	89.2	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	98.9	98.9	(70.00 - 130.00)	10

QC Batch #64454 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	553	110.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	541	108.2	(85.00 - 115.00)	2.2
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	484	96.8	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	488	97.6	(70.00 - 130.00)	0.82

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

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Laboratory
QC Report
#35064

Foster Wheeler Environmental, Inc
(continued)

QC Batch #64456 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19	95.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	18.8	94.0	(85.00 - 115.00)	1.1
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19	95.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	7.1

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

MONTGOMERY WATSON LABORATORIES

July 29, 1997

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

Attention: Mark Cutler

Re: Report # 35217 (MW-972-86,-85,-32)

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):
(Alkalinity) MW-972-32: The MS associated with this sample recovered outside the QC limits, at 120.6%. The RPD, with the MSD, was acceptable.

Samples requiring dilution (with increased MRL's):
MW-972-32: Calcium, Chloride, Iron, Nitrate, and Sulfate.

Method blanks with compounds detected:
NONE

Other Comments:
A VOC of unknown description was detected in sample ID: MW-972-86, MW-972-85
1,1-Dichloroethane, was detected in sample ID: MW-972-32

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

Fast due 5500 9/2
letter sent 6/12

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35217
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/02/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
970702097	MW-972-86			Water			07/02/97
		@VOASDWA					
970702098	MW-972-85			Water			07/02/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	CR-VI	
970702099	MW-972-32			Water			07/02/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		

Test Acronym Description

Test Acronym	Description
@VOASDWA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA-FL	Calcium, Flame AA
CATION	Cation Sum
CL	Chloride
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K-FL	Potassium, Flame AA
MG-FL	Magnesium, Flame AA
NA-FL	Sodium, Flame AA
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH

5009 - SOIL
20725 CLIENT

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35217
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
SO4	Sulfate
TDS	Total Dissolved Solids

35217

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

No. 0800

Page ___ of ___

Project: JPL

OFS No. 1572

Project Address: 4800 Oak Drive Pasadena CA

Sampler (Name): Gary L. Shaw

Sampler (Signature): Gary L. Shaw

Laboratory: Montgomery Watson Laboratory

Reports to Be Sent to: Mark Cutler

HAZARD IDENTIFICATION: Nonhazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

Time Required: NORMAL ☒ 3 DAYS RUSH ☐ ___ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SAMPLE MATERIAL: SOIL	SAMPLE MATERIAL: OTHER (Describe)	ANALYSES REQUIRED: VOCs (EPA 524.2)	Toxic Metals EPA 6010 7000	Anions	Hexavalent Chrome	Lab No.
MW-972-86	16:00	7-2-97	2	2 x 40mL	✓			X				9707020 97
MW-972-85	16:05	7-2-97	4	2x40mL 1x125mL 1x250mL	✓			X	X		X	9707020 98
MW-972-32	16:45	7-2-97	5	2x40mL 1x250mL 1x500mL 1x125mL	✓			X	X	X	X	9707020 99

LABORATORY INSTRUCTIONS/COMMENTS: Level IV QA/QC

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	7-2-97	M. [signature]			
Company: FWENC	Time: 1740	Company: Montgomery Watson	Company:	Time:	Company:

F-2

Report Summary of positive results, PR35217

			Result	MDL	UNITS
Analyzed	970702097	MW-972-86			
Analyzed	970702098	MW-972-85			
Analyzed	970702099	MW-972-32			
07/08/97	1,1-Dichloroethane		2.0	.500	UGL
07/08/97	Alkalinity		205	2.000	MGL
07/17/97	Anion Sum		14.0	.001	MEQL
07/17/97	Bicarbonate as HCO3,calculated		250	.001	MGL
07/22/97	Calcium, Flame AA		135	5.000	MGL
07/17/97	Carbonate as CO3, Calculated.		0.129	.001	MGL
07/23/97	Cation Sum		12.7	.001	MEQL
07/03/97	Chloride		135	2.000	MGL
07/19/97	Chromium, Total, ICAP/MS	DEB 7/30/97	~~3.6~~ ND	~~2.000~~ 10.0	UGL
07/19/97	Iron, Total, ICAP/MS		2300	******	UGL
07/02/97	Lab pH		6.9	.001	UNIT
07/19/97	Lead, Total, ICAP/MS	DEB 7/30/97	~~0.51~~ ND	~~.500~~ 2.0	UGL
07/20/97	Magnesium, Flame AA		49	1.000	MGL
07/03/97	Nitrate-N by IC		19	.200	MGL
07/19/97	Potassium, Flame AA		3.3	1.000	MGL
07/19/97	Sodium, Flame AA		42	1.000	MGL
07/08/97	Specific Conductance		1260	4.000	UMHO
07/03/97	Sulfate		225	4.000	MGL
07/03/97	Total Dissolved Solids		820	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

Report#: 35217
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#35217

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

Samples Received
02-jul-1997 17:44:36

Anal	Method	Analyte	Result	Units	MDL
MW-972-86 (970702097)		**Sampled on 07/02/97**			
		Regulated VOCs plus Lists 1&3			
07/08/97	ML/EPA 524.2	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1,1-Trichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1,2-Trichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1-Dichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1-Dichloroethylene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1-Dichloropropene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,3-Trichlorobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,3-Trichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,4-Trichlorobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,4-Trimethylbenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2-Dichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2-Dichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,3,5-Trimethylbenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,3-Dichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	2,2-Dichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	2-Butanone (MEK)	ND	ug/l	5.0
07/08/97	ML/EPA 524.2	o-Chlorotoluene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	p-Chlorotoluene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
07/08/97	ML/EPA 524.2	Benzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Bromobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	cis-1,2-Dichloroethylene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Chlorobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Carbon Tetrachloride	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	cis-1,3-Dichloropropene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Bromoform	ND	ug/l	0.50

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Laboratory
Report
#35217

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
07/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0
07/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	Unknown (RT=7.74)	1.6	ug/L	
	(Surrogate)	1,2-Dichloroethane-d4	98	% Rec	
	(Surrogate)	4-Bromofluorobenzene	92	% Rec	
	(Surrogate)	Toluene-d8	105	% Rec	

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
MW-972-85 (970702098) Sampled on 07/02/97					
07/17/97	S3113B/E200.9	Arsenic, Total, GF	ND	mg/l	0.005
07/19/97	EPA/MS 200.8	Chromium, Total, ICAP/MS	ND	ug/l	10
07/03/97	ML/SW 7196	Hexavalent chromium	ND	mg/l	0.005
07/19/97	EPA/ML 200.8	Lead, Total, ICAP/MS	ND	ug/l	2.0
		Regulated VOCs plus Lists 1&3			
07/08/97	ML/EPA 524.2	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1,1-Trichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1,2-Trichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1-Dichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1-Dichloroethylene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,1-Dichloropropene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,3-Trichlorobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,3-Trichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,4-Trichlorobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2,4-Trimethylbenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2-Dichloroethane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,2-Dichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,3,5-Trimethylbenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	1,3-Dichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	2,2-Dichloropropane	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	2-Butanone (MEK)	ND	ug/l	5.0
07/08/97	ML/EPA 524.2	o-Chlorotoluene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	p-Chlorotoluene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
07/08/97	ML/EPA 524.2	Benzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Bromobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	cis-1,2-Dichloroethylene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Chlorobenzene	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	Carbon Tetrachloride	ND	ug/l	0.50
07/08/97	ML/EPA 524.2	cis-1,3-Dichloropropene	ND	ug/l	0.50

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Laboratory
Report
#35217

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
07/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0
07/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	Unknown (RT=4.25)	3.3	ug/L	
	(Surrogate)	1,2-Dichloroethane-d4	100	% Rec	
	(Surrogate)	4-Bromofluorobenzene	91	% Rec	

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Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	Toluene-d8	106	% Rec	
MW-972-32 (970702099) Sampled on 07/02/97					
07/08/97	(ML/S2320B)	Alkalinity	205	mg/l	2.0
07/17/97	(ML/SM1040)	Anion Sum	14.0	meq/l	0.0010
07/17/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
07/22/97	(ML/S3111B)	Calcium, Flame AA	135	mg/l	5.0
07/23/97	(ML/SM1040)	Cation Sum	12.7	meq/l	0.0010
07/03/97	(ML/EPA 300)	Chloride	135	mg/l	2.0
07/17/97	(ML/S2320-B)	Carbonate as CO3, Calculated	0.129	mg/l	0.0010
07/19/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
07/03/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
07/08/97	(ML/S2510B)	Specific Conductance	1260	umho/cm	4.0
07/19/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	2300	ug/l	100
07/17/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	250	mg/l	0.0010
07/19/97	(ML/S3111B)	Potassium, Flame AA	3.3	mg/l	1.0
07/20/97	(ML/S3111B)	Magnesium, Flame AA	49	mg/l	1.0
07/19/97	(ML/S3111B)	Sodium, Flame AA	42	mg/l	1.0
07/03/97	(ML/EPA 300.0)	Nitrate-N by IC	19	mg/l	0.20
07/19/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
07/02/97	(SM 4500H-B)	Lab pH	6.9	Units	0.0010
07/03/97	(ML/EPA 300)	Sulfate	225	mg/l	4.0
07/03/97	(ML/S2540C)	Total Dissolved Solids	820	mg/l	10
		Regulated VOCs plus Lists 1&3			
07/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	2.0	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50

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07/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
07/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
07/08/97	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0
07/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
07/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
07/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	99	% Rec	
	(Surrogate)	4-Bromofluorobenzene	90	% Rec	
	(Surrogate)	Toluene-d8	99	% Rec	

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QC Batch #64054 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0499	99.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0491	98.2	(78.00 - 118.00)	1.6
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0514	102.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0499	99.8	(80.00 - 120.00)	3.0

QC Batch #64124 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	648	92.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #64209 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	0.00
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	116	120.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	110	114.3	(80.00 - 120.00)	5.3

QC Batch #64223 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.68	92.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.45	86.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.89	97.2	(70.00 - 130.00)	

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

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MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	4.29	107.2	(70.00 - 130.00)
MBLK	1,1-Dichloroethylene	ND			
MBLK	1,1-Dichloropropene	ND			
MBLK	1,2,3-Trichlorobenzene	ND			
MBLK	1,2,3-Trichloropropane	ND			
LCS1	1,2,4-Trichlorobenzene	4	3.38	84.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.55	88.8	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.34	83.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.74	84.2	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.69	92.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.59	89.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.33	83.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.58	89.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.52	88.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.42	85.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.75	93.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			

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MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.88	97.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.66	91.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.97	98.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.49	87.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.74	93.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.63	90.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.58	89.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	3.98	120.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.92	96.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.47	86.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.24	90.5	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.65	91.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.61	90.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			

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MBLK	p-Chlorotoluene	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.49	87.2	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	trans-1,2-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	trans-1,3-Dichloropropene	ND				

QC Batch #64288 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.6	98.4	(90.00 - 110.00)	
LCS2	Chloride	25	24.9	99.6	(90.00 - 110.00)	1.2
MBLK	Chloride	ND				
MS	Chloride	25	24.9	99.6	(80.00 - 120.00)	
MSD	Chloride	25	25.1	100.4	(80.00 - 120.00)	0.80

QC Batch #64289 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.45	98.0	(90.00 - 110.00)	1.2
MBLK	Nitrate-N by IC	ND				

QC Batch #64290 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sulfate	50	48.3	96.6	(90.00 - 110.00)	0.62
MBLK	Sulfate	ND				
MS	Sulfate	50	52.0	104.0	(70.00 - 130.00)	
MSD	Sulfate	50	51.8	103.6	(70.00 - 130.00)	0.39

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QC Batch #64449 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0193	96.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.019	95.0	(85.00 - 115.00)	1.6
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0194	97.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	14

QC Batch #64453 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.5	95.5	(85.00 - 115.00)	0.31
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	89.2	89.2	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	98.9	98.9	(70.00 - 130.00)	10

QC Batch #64454 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	553	110.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	541	108.2	(85.00 - 115.00)	2.2
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	484	96.8	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	488	97.6	(70.00 - 130.00)	0.82

QC Batch #64456 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19	95.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	18.8	94.0	(85.00 - 115.00)	1.1
MBLK	Lead, Total, ICAP/MS	ND				

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

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
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Laboratory
QC Report
#35217

Foster Wheeler Environmental, Inc
(continued)

MS	Lead, Total, ICAP/MS	20	19	95.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	7.1

QC Batch #64567 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	21.0	105.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	21.8	109.0	(80.00 - 120.00)	3.7
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	22.6	113.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	22.5	112.5	(85.00 - 115.00)	0.44

QC Batch #64570 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	51.4	102.8	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	51.4	102.8	(90.00 - 110.00)	0.00
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	52.3	104.6	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	52.1	104.2	(85.00 - 115.00)	0.38

QC Batch #64572 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.5	102.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	21.3	106.5	(90.00 - 110.00)	3.8
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	21.1	105.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.95

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

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Laboratory
QC Report
#35217

Foster Wheeler Environmental, Inc
(continued)

QC Batch #64576 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.7	103.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	54.8	109.6	(90.00 - 110.00)	5.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	49.6	99.2	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	50.3	100.6	(85.00 - 115.00)	1.4

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

MONTGOMERY WATSON LABORATORIES

July 29, 1997

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

Attention: Mark Cutler

Re: Report # 35235 (MW-972-88,-87,-31)

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):
(NO3) MW-972-31: An MS/MSD is not reported due to spiked values which exceed the calibration range of the analysis.
(Alkalinity) MW-972-31: The MS associated with this samples recovered outside the QC limits, at 120.6%. The RPD, with the MSD, was acceptable.

Samples requiring dilution (with increased MRL's):
MW-972-31: Calcium, Chloride, Iron, Magnesium, Nitrate, and Sulfate.

Method blanks with compounds detected:
(IRON) MW-972-31: There was a trace amount of iron in the Method Blank. The value, 38 ppb, is less than 1/2 the MRL.

Other Comments:
A VOC of unknown description was detected in sample ID: MW-972-88, 1,1-Dichloroethane, 1,2,3-Trichlorobenzene, Chloroform, Tetrachloroethylene (PCE), and Trichlorethylene (TCE) were detected in sample ID: MW-972-31

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

Last due 5500 4/6
letter sent 6/12

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35235
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/03/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
970703046	MW-972-88			Water			07/03/97
		@VOASDWA					
970703047	MW-972-87			Water			07/03/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	CR-VI	
970703048	MW-972-31			Water			07/03/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		

Test Acronym Description

Test Acronym	Description
@VOASDWA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA-FL	Calcium, Flame AA
CATION	Cation Sum
CL	Chloride
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K-FL	Potassium, Flame AA
MG-FL	Magnesium, Flame AA
NA-FL	Sodium, Flame AA
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH

4860 SOYSI
201725 CLIENT

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35235
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
SO4	Sulfate
TDS	Total Dissolved Solids

25235

FOSTER WHEELER ENVIRONMENTAL CORPORATION

0883

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project: JPL | OFS No. 1572

Project Address: 4800 OAK Grove Drive Pasadena Ca.

Sampler (Name): Gary L. Shaw | Sampler: (Signature): Mary Shaw

Laboratory: Montgomery Watson Laboratory

Reports to Be Sent to: Mark Culler

HAZARD IDENTIFICATION: Nonhazard ☑ 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 (EPA SW-8)	Total Metals (EPA 6010/7000 Series)	Anions	Hexavalent Chrome	
MW-972-88	0800	7-3-97	3	2 X 40 ml	✓			X				9707030046
MW-972-87	13:15	7-3-97	4	2 X 40 ml 2 x 250 ml	✓			X	X		X	9707030047
MW-972-31	10:48	7-3-97	5	2 x 40ml, 1 x 250ml 1 x 500ml 1 x 125ml	✓			X	X	X	X	9707030048

LABORATORY INSTRUCTIONS/COMMENTS: Level IV QA/QC

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Mark Culler	7/3/97				
Company: FWENC	Time: 16:00	Company: Montgomery Labs	Company:	Time:	Company:

F-2

Report Summary of positive results, PR35235

			Result	MDL	UNITS
Analyzed	970703046	MW-972-88			
Analyzed	970703047	MW-972-87			
Analyzed	970703048	MW-972-31			
07/08/97	1,1-Dichloroethane		1.5	.500	UGL
07/08/97	1,2,3-Trichlorobenzene		0.5	.500	UGL
07/08/97	Chloroform (Trichloromethane)		0.9	.500	UGL
07/08/97	Tetrachloroethylene (PCE)		1.7	.500	UGL
07/08/97	Trichloroethylene (TCE)		1.1	.500	UGL
07/08/97	Alkalinity		290	2.000	MGL
07/17/97	Anion Sum		14.4	.001	MEQL
07/17/97	Bicarbonate as HCO3,calculated		354	.001	MGL
07/22/97	Calcium, Flame AA		145	5.000	MGL
07/17/97	Carbonate as CO3, Calculated		0.290	.001	MGL
07/23/97	Cation Sum		13.5	.001	MEQL
07/03/97	Chloride		125	3.000	MGL
07/16/97	Iron, Total, ICAP/MS		2300	******	UGL
07/08/97	Lab pH		7.1	.001	UNIT
07/20/97	Magnesium, Flame AA		56	2.000	MGL
07/03/97	Nitrate-N by IC		15	.300	MGL
07/19/97	Potassium, Flame AA		3.3	1.000	MGL
07/19/97	Sodium, Flame AA		35	1.000	MGL
07/08/97	Specific Conductance		1280	4.000	UMHO
07/03/97	Sulfate		190	6.000	MGL
07/10/97	Total Dissolved Solids		810	10.000	MGL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

Report#: 35235
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report #35235

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

Samples Received
03-jul-1997 16:22:48

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-88 (970703046)			**Sampled on 07/03/97**					
				Regulated VOCs plus Lists 1&3				
07/08/97	64223		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
07/08/97	64223		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
07/08/97	64223		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
07/08/97	64223		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#35235

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/08/97	64223	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown (RT=7.74)	1.3	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	87	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Laboratory Report #35235

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-972-87 (970703047) Sampled on 07/03/97								
07/15/97	07/16/97	64407	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
07/15/97	07/16/97	64444	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/03/97	64054	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
07/15/97	07/16/97	64446	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	07/08/97	64223	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/08/97	64223	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	103	% Rec		
MW-972-31 (970703048) Sampled on 07/03/97								
	07/08/97	64209	(ML/S2320B)	Alkalinity	290	mg/l	2.0	1
	07/17/97		(ML/SM1040)	Anion Sum	14.4	meq/l	0.0010	1
07/15/97	07/16/97	64407	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	07/22/97	64576	(ML/S3111B)	Calcium, Flame AA	145	mg/l	5.0	5
	07/23/97		(ML/SM1040)	Cation Sum	13.5	meq/l	0.0010	1
	07/03/97	64288	(ML/EPA 300)	Chloride	125	mg/l	3.0	3
	07/17/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.290	mg/l	0.0010	1
07/15/97	07/16/97	64444	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	07/03/97	64054	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	07/08/97		(ML/S2510B)	Specific Conductance	1280	umho/cm	4.0	1
07/15/97	07/16/97	64437	(EPA/ML 200.8)	Iron, Total, ICAP/MS	2300	ug/l	100	10
	07/17/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	354	mg/l	0.0010	1
	07/19/97	64567	(ML/S3111B)	Potassium, Flame AA	3.3	mg/l	1.0	1
	07/20/97	64572	(ML/S3111B)	Magnesium, Flame AA	56	mg/l	2.0	2
	07/19/97	64570	(ML/S3111B)	Sodium, Flame AA	35	mg/l	1.0	1
	07/03/97	64289	(ML/EPA 300.0)	Nitrate-N by IC	15	mg/l	0.30	3
07/15/97	07/16/97	64446	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	07/08/97		(ML/S4500H-B)	Lab pH	7.1	Units	0.0010	1
	07/03/97	64290	(ML/EPA 300)	Sulfate	190	mg/l	6.0	3
	07/10/97	64219	(ML/S2540C)	Total Dissolved Solids	810	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	07/08/97	64223	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1-Dichloroethane	1.5	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	0.5	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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	07/08/97	64223	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	07/08/97	64223	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	07/08/97	64223	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.7	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.1	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	07/08/97	64223	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	84	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Group Comments

(Nitrate-IC) There is no MS/MSD recoveries reported, due to over linear range.
(Iron) There was a trace hit for Iron in the prep blank at 38ppb less than half the reporting limit. No action is taken

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QC Batch #64054 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0499	99.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0491	98.2	(78.00 - 118.00)	1.6
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0514	102.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0499	99.8	(80.00 - 120.00)	3.0

QC Batch #64209 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	103	107.1	(90.00 - 110.00)	0.00
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	116	120.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	110	114.3	(80.00 - 120.00)	5.3

QC Batch #64219 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	172	98.3	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	700	652	93.1	(85.00 - 115.00)	
MBLK	Total Dissolved Solids	ND				

QC Batch #64223 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.68	92.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.45	86.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.89	97.2	(70.00 - 130.00)	

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

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MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	4.29	107.2	(70.00 - 130.00)
MBLK	1,1-Dichloroethylene	ND			
MBLK	1,1-Dichloropropene	ND			
MBLK	1,2,3-Trichlorobenzene	ND			
MBLK	1,2,3-Trichloropropane	ND			
LCS1	1,2,4-Trichlorobenzene	4	3.38	84.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.55	88.8	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.34	83.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.74	84.2	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.69	92.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.59	89.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.33	83.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.58	89.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.52	88.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.42	85.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.75	93.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			

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MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.88	97.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.66	91.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.97	98.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.49	87.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.74	93.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.63	90.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.58	89.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	3.98	120.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.92	96.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.47	86.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.24	90.5	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.65	91.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.61	90.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			

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

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.49	87.2	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #64288 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.6	98.4	(90.00 - 110.00)	
LCS2	Chloride	25	24.9	99.6	(90.00 - 110.00)	1.2
MBLK	Chloride	ND				
MS	Chloride	25	24.9	99.6	(80.00 - 120.00)	
MSD	Chloride	25	25.1	100.4	(80.00 - 120.00)	0.80

QC Batch #64289 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.45	98.0	(90.00 - 110.00)	1.2
MBLK	Nitrate-N by IC	ND				

QC Batch #64290 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sulfate	50	48.3	96.6	(90.00 - 110.00)	0.62
MBLK	Sulfate	ND				
MS	Sulfate	50	52.0	104.0	(70.00 - 130.00)	
MSD	Sulfate	50	51.8	103.6	(70.00 - 130.00)	0.39

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(continued)

MS	Lead, Total, ICAP/MS	20	21.5	107.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.7	98.5	(70.00 - 130.00)	8.7

QC Batch #64567 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	21.0	105.0	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	21.8	109.0	(80.00 - 120.00)	3.7
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	22.6	113.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	22.5	112.5	(85.00 - 115.00)	0.44

QC Batch #64570 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	51.4	102.8	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	51.4	102.8	(90.00 - 110.00)	0.00
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	52.3	104.6	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	52.1	104.2	(85.00 - 115.00)	0.38

QC Batch #64572 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.5	102.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	21.3	106.5	(90.00 - 110.00)	3.8
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	21.1	105.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.95

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #64576 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.7	103.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	54.8	109.6	(90.00 - 110.00)	5.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	49.6	99.2	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	50.3	100.6	(85.00 - 115.00)	1.4

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

MONTGOMERY WATSON LABORATORIES

July 29, 1997

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

Attention: Mark Cutler

Re: Report # 35263 (MW-972-90,-29MS,-29MSD,-89,-30,-29,-28,-11)

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):
(VOCs) MW-972-29: The Internal Standard, 1,2-DCB-d4, area was lower than 70% of the area of the same IS in the Continuing Calibration standard. The analysis of the second vial showed the same effect. The low IS is attributed to matrix affect. Low IS would cause a high bias to the results. The sample is Non Detect (ND).
(Alkalinity) MW-972-11: The MS performed on this sample recovered outside the QC limits, at 120.6%. The RPD, with the MSD, was acceptable.
Samples requiring dilution (with increased MRL's):
MW-972-30,-29,-11: Chloride, Nitrate, and Sulfate.
Method blanks with compounds detected:
(IRON) MW-972-30,-29,-28, and -11: There was a trace amount of iron in the Method Blank. The value, 38 ppb, is less than 1/2 the MRL.
Other Comments:
A VOC of unknown description was detected in sample ID: MW-972-90,-89
Tetrachloroethylene (PCE)was detected in sample ID: MW-972-11

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35263
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 07/07/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
970707071	MW-972-90			Water			07/07/97
		@VOASDWA					
970707072	MW-972-29 MS			Water			07/07/97
		@VOASDWA					
970707073	MW-972-29 MSD			Water			07/07/97
		@VOASDWA					
970707074	MW-972-89			Water			07/07/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	CR-VI	
970707075	MW-972-30			Water			07/07/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970707076	MW-972-29			Water			07/07/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970707077	MW-972-28			Water			07/07/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		
970707078	MW-972-11			Water			07/07/97
		@VOASDWA	CR-MS	PB-MS	AS-GF	TDS	
		CATION	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K-FL
		NA-FL	MG-FL	CA-FL	CR-VI		

Test Acronym Description

Test Acronym	Description

5022
201725 CLIENT

Continue

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

Customer Code: ENSERCH
PO#: Sub #SANS94-1162LG
Group#: 35263
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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