

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-11-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-11-99

STANDARDIZATION

Time: 0800 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1430 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-13-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-13-99

STANDARDIZATION

Time: 0735 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1300 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-16-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-16-99

STANDARDIZATION

Time: 0730 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1345 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-19-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-19-99

STANDARDIZATION

Time: 0915 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1300 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-20-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-20-99

STANDARDIZATION

Time: 0800 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1230 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-23-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-23-99

STANDARDIZATION

Time: 0755 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1630 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: M. Hunt Date: 8-24-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 3921 Calibration Date: 8-24-99

STANDARDIZATION

Time: 0810 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: 1545 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: M. Hunt Date: 8-25-99
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: _____ Calibration Date: 8-25-99

STANDARDIZATION

Time: 0800 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1040 Scale: 20 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

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

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

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

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

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

Comments: _____

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-2-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97C 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 1045 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: -000 Temperature: 24.2 pH: 7.00 ISO: N/A
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 1045 Slope: _____ Temperature: 25.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1500 Slope: _____ Temperature: 34.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-3-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98 M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0835 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 24.2 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0835 Slope: — Temperature: 21.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1405 Slope: — Temperature: 36.7
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: M. Hunt Date: 8-4-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 20.9 pH: 7.00 ISO: _____
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0845 Slope: _____ Temperature: 20.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1400 Slope: _____ Temperature: 35.4
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-5-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: -000 Temperature: 22.0 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: — Temperature: 18.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1415 Slope: — Temperature: 27.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-6-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 18.9 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: — Temperature: 18.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1140 Slope: — Temperature: 19.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-9-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97C 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 18.0 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0750 Slope: — Temperature: 14.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1205 Slope: — Temperature: 23.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-10-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97C0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 20.8 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ~~Yes~~ Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0755 Slope: — Temperature: 16.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1410 Slope: — Temperature: 25.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-11-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 15.2 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: — Temperature: 13.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1430 Slope: — Temperature: 28.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-13-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97C0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 18.9 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0735 Slope: — Temperature: 16.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1300 Slope: — Temperature: 30.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-16-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 9700653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: -000 Temperature: 14.8 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0730 Slope: — Temperature: 13.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1345 Slope: — Temperature: 32.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-19-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0915 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: -000 Temperature: 18.1 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0915 Slope: — Temperature: 18.4
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1300 Slope: — Temperature: 29.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-20-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97C0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: -000 Temperature: 18.6 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: — Temperature: 18.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1230 Slope: — Temperature: 32.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-23-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M 814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97C0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 000 Temperature: 18.7 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0755 Slope: — Temperature: 17.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1630 Slope: — Temperature: 41.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-24-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: Good 7.00
Instrument Readings with Shorting Plug in, mV: ~000 Temperature: 25.4 pH: 25.4 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0810 Slope: — Temperature: 22.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1545 Slope: — Temperature: 38.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: M. Hunt Date: 8-25-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 2957
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98M814970
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 97c 0653
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: 11/2000 pH 7.00: 2/2001 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: -000 Temperature: 21.7 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: Yes
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: — Temperature: 21.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1040 Slope: — Temperature: 30.2
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%

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-2-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-2-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: ~~4~~ 1000 $\mu\text{S/cm}$ Expiration Date: 4/2000

FIELD CALIBRATION

Time: 1045 Temperature: 25.9
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) ~~1040~~
 Instrument Response: 1040 $\mu\text{S/cm}$ Probe Constant: _____
 Time: 1500 Temperature: 34.6
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) 1191
 Instrument Response: 1236 $\mu\text{S/cm}$ Probe Constant: 0.96
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: _____ Probe Constant: _____
 $E_{\text{ref}} = +226$

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu\text{S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And

Conductivity @ 25°C ($\mu\text{S/cm}$)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- $\pm 6\%$ of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale;
 $\leq 1500 \mu\text{mhos/cm}$ on 5000 Scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300
 $\mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale;
 and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 Scale.
- $\pm 4.5\%$ of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale;
 $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-3-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: _____
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 $\mu\text{S/cm}$ Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0835 Temperature: 22.1
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: 992 $\mu\text{S/cm}$ Probe Constant: _____
 Time: 1405 Temperature: 36.8
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) 1236
 Instrument Response: 1264 $\mu\text{S/cm}$ Probe Constant: 0.98
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: _____ Probe Constant: _____
Eref = +231 mV

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu\text{S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25°C ($\mu\text{S/cm}$)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- ± 6% of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale;
 $\leq 1500 \mu\text{mhos/cm}$ on 5000 Scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
- ± 4.5% to 6% of calibration solution if reading is > 150 and < 300
 $\mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale;
and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 Scale.
- ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale;
 $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-4-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-4-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0845 Temperature: 19.4

Temperature Compensated Solution Conductivity (μ S/cm) _____

Instrument Response: 916 MS/cm Probe Constant: _____

Time: 1400 Temperature: 35.6

Temperature Compensated Solution Conductivity (μ S/cm) 1211

Instrument Response: 1250 MS/cm Probe Constant: 0.97

Time: _____ Temperature: _____

Temperature Compensated Solution Conductivity (μ S/cm) _____

Instrument Response: _____ Probe Constant: _____

$E_{ref} = +241$ mV

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $Conductivity (\mu S/cm) = (Conductivity at 25^{\circ}C) (A + BT + CT^2)$
 Where T = Temperature in $^{\circ}C$

And

Conductivity @ 25 $^{\circ}C$ (μ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- $\pm 6\%$ of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale;
 ≤ 1500 μ hos/cm on 5000 Scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300
 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale;
 and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 Scale.
- $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale;
 ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-5-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-5-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0800 Temperature: 18.3
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: 902 MS/cm Probe Constant: _____

Time: 1415 Temperature: 28.2
 Temperature Compensated Solution Conductivity (μ S/cm) 1063
 Instrument Response: 1098 MS/cm Probe Constant: 0.97

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

E_{ref} = +242

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And

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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- ± 6% of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale;
 $\leq 1500 \mu\text{mhos/cm}$ on 5000 Scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
- ± 4.5% to 6% of calibration solution if reading is > 150 and < 300
 $\mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale;
 and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 Scale.
- ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale;
 $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-6-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 $\mu\text{S/cm}$ Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 18.3
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$)* _____
 Instrument Response to Calibration Solution: 887
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Time: 1140 Temperature of Solution: 19.3
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$)* 891
 Instrument Response to Calibration Solution: 921 $\mu\text{S/cm}$
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: No: _____

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Err = +243 μV

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

$$\text{Conductivity } (\mu\text{S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25°C ($\mu\text{S/cm}$)	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:**
 $\pm 6\%$ of calibration solution if reading is ≤ 150 $\mu\text{mhos/cm}$ on 500 scale; ≤ 1500 $\mu\text{mhos/cm}$ on 5000 scale; or $\leq 15,000$ $\mu\text{mhos/cm}$ on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 $\mu\text{mhos/cm}$ on 500 scale; > 1500 and < 3000 $\mu\text{mhos/cm}$ on 5000 scale; and $> 15,000$ and $< 30,000$ $\mu\text{mhos/cm}$ on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is ≥ 300 $\mu\text{mhos/cm}$ on 500 scale; ≥ 3000 $\mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000$ $\mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-9-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 14.0
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: 820 MS/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Time: 1205 Temperature of Solution: 23.3
 Temperature Compensated Solution Conductivity (μ S/cm)* 967
 Instrument Response to Calibration Solution: 1018 MS/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: No: _____

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Eref = +248mV

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

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$
 Where T = Temperature in $^\circ\text{C}$

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 $\leq 150 \mu\text{hos/cm}$ on 500 scale; $\leq 1500 \mu\text{hos/cm}$ on 5000 scale; or $\leq 15,000 \mu\text{hos/cm}$ on 50,000 scale.
 ±4.5% to 6% of calibration solution if reading is > 150 and $< 300 \mu\text{hos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{hos/cm}$ on 5000 scale; and $> 15,000$ and $< 30,000 \mu\text{hos/cm}$ on 50,000 scale.
 ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{hos/cm}$ on 500 scale; $\geq 3000 \mu\text{hos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{hos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-10-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0755 Temperature of Solution: 16.6
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: 872 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Time: 1410 Temperature of Solution: 25.0
 Temperature Compensated Solution Conductivity (μ S/cm)* 1000
 Instrument Response to Calibration Solution: 1002 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: No: _____

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____
Eref = +241 mV

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

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25 $^\circ\text{C}$ (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:**
 $\pm 6\%$ of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale; ≤ 1500 μ hos/cm on 5000 scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale; ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-11-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 13.8
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: 814 MS/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Time: 1430 Temperature of Solution: 28.4
 Temperature Compensated Solution Conductivity (μ S/cm)* 1067
 Instrument Response to Calibration Solution: 1078 MS/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: No: _____

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Eref = +248 mV

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

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25 $^\circ\text{C}$ (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:**
 $\pm 6\%$ of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale; $\leq 1500 \mu\text{mhos/cm}$ on 5000 scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and $< 300 \mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale; and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale; $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-13-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0735 Temperature of Solution: 15.6
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: 858 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Time: 1300 Temperature of Solution: 30.1
 Temperature Compensated Solution Conductivity (μ S/cm)* 1100
 Instrument Response to Calibration Solution: 1126 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: No: _____

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____

Eref = +245 mV

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

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in $^\circ\text{C}$

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:

- $\pm 6\%$ of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale; ≤ 1500 μ hos/cm on 5000 scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 scale.
- $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale; ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: _____
 Calibration by: M. Hunt Date: 8-16-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-16-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 $\mu\text{S/cm}$ Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0730 Temperature: 13.2
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: 808 $\mu\text{S/cm}$ Probe Constant: _____
 Time: 1345 Temperature: 32.6
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) 1150
 Instrument Response: 1157 $\mu\text{S/cm}$ Probe Constant: 0.99
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: _____ Probe Constant: _____

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu\text{S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25°C ($\mu\text{S/cm}$)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- ± 6% of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale;
 $\leq 1500 \mu\text{mhos/cm}$ on 5000 Scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
- ± 4.5% to 6% of calibration solution if reading is > 150 and $< 300 \mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale;
 and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 Scale.
- ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale;
 $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-19-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-19-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0915 Temperature: 18.6
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: 896 μ S/cm Probe Constant: _____
 Time: 1300 Temperature: 29.4
 Temperature Compensated Solution Conductivity (μ S/cm) 1086
 Instrument Response: 1126 μ S/cm Probe Constant: 0.96
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: _____ Probe Constant: _____
Eref = +238

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

And

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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- ± 6% of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale;
 ≤ 1500 μ hos/cm on 5000 Scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- ± 4.5% to 6% of calibration solution if reading is > 150 and < 300
 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale;
 and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 Scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale;
 ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-20-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-20-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0800 Temperature: 18.1
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: 896 MS/cm Probe Constant: _____
 Time: 1230 Temperature: 33.2
 Temperature Compensated Solution Conductivity (μ S/cm) 1162
 Instrument Response: 1187 MS/cm Probe Constant: 0.98
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: _____ Probe Constant: _____
E_{ref} = +242

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And

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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- $\pm 6\%$ of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale;
 $\leq 1500 \mu\text{mhos/cm}$ on 5000 Scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300
 $\mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale;
 and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 Scale.
- $\pm 4.5\%$ of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale;
 $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-23-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-23-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0755 Temperature: 17.5
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: 888 μ S/cm Probe Constant: _____
 Time: 1630 Temperature: 41.9
 Temperature Compensated Solution Conductivity (μ S/cm) 1341
 Instrument Response: 1392 μ S/cm Probe Constant: 0.96
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: _____ Probe Constant: _____
Eref = +244

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And

Conductivity @ 25 $^\circ\text{C}$ (μ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- $\pm 6\%$ of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale;
 ≤ 1500 μ mhos/cm on 5000 Scale; or $\leq 15,000$ μ mhos/cm on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300
 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale;
 and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 Scale.
- $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale;
 ≥ 3000 μ mhos/cm on 5000 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-24-99
 Instrument Manufacturer: YSI 3500 Model: 3500
 Serial Number: 2957 Calibration Date: 8-24-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0810 Temperature: 22.6
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: 1003 MS/cm Probe Constant: _____
 Time: 1545 Temperature: 38.3
 Temperature Compensated Solution Conductivity (μ S/cm) 1266
 Instrument Response: 1320 MS/cm Probe Constant: 0.96
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity (μ S/cm) _____
 Instrument Response: _____ Probe Constant: _____
Eref = +234

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

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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- ± 6% of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale;
 ≤ 1500 μ mhos/cm on 5000 Scale; or $\leq 15,000$ μ mhos/cm on 50,000 scale.
- ± 4.5% to 6% of calibration solution if reading is > 150 and < 300
 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale;
 and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 Scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale;
 ≥ 3000 μ mhos/cm on 5000 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: M. Hunt Date: 8-25-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 2957 Calibration Date: 8-25-99
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98 F0587
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 $\mu\text{S/cm}$ Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0800 Temperature: 21.6
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: 980 $\mu\text{S/cm}$ Probe Constant: _____
 Time: 1040 Temperature: 30.2
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) 1102
 Instrument Response: 1140 $\mu\text{S/cm}$ Probe Constant: 0.97
 Time: _____ Temperature: _____
 Temperature Compensated Solution Conductivity ($\mu\text{S/cm}$) _____
 Instrument Response: _____ Probe Constant: _____
 $E_{\text{ref}} = +236$

The Temperature Compensated Solution Conductivity May Be Computed Using:
 $\text{Conductivity } (\mu\text{S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And

Conductivity @ 25°C ($\mu\text{S/cm}$)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

Instrument is Calibrated if Response is:

- ± 6% of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale;
 $\leq 1500 \mu\text{mhos/cm}$ on 5000 Scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
- ± 4.5% to 6% of calibration solution if reading is > 150 and < 300
 $\mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale;
 and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 Scale.
- ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale;
 $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

APPENDIX D
LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-3-2	56737	MW-993-070	3	8/4/99
MW-3-3	56737	MW-993-069	3	8/4/99
MW-3-4	56737	MW-993-068	3	8/4/99
MW-3-5	56737	MW-993-067	3	8/4/99
MW-4-1	57238	MW-993-066	12	8/20/99
MW-4-2	57238	MW-993-065	12	8/20/99
MW-4-2 Dup	57238	MW-993-064	12	8/20/99
MW-4-3	57238	MW-993-063	12	8/20/99
MW-4-4	57238	MW-993-062	12	8/20/99
MW-4-5	57238	MW-993-061	12	8/20/99
MW-5	57336	MW-993-060	14	8/24/99
MW-6	57382	MW-993-059	15	8/25/99
MW-7	57336	MW-993-058	14	8/24/99
MW-8	57382	MW-993-057	15	8/25/99
MW-10	57336	MW-993-056	14	8/24/99
MW-10 Dup	57336	MW-993-055	14	8/24/99
MW-11-1	56953	MW-993-054	8	8/11/99
MW-11-2	56953	MW-993-053	8	8/11/99
MW-11-3	56953	MW-993-052	8	8/11/99
MW-11-4	56953	MW-993-051	8	8/11/99
MW-12-1	56953	MW-993-050	8	8/11/99
MW-12-2	56953	MW-993-049	8	8/11/99
MW-12-2 Dup	56953	MW-993-048	8	8/11/99
MW-12-3	57084	MW-993-047	10	8/16/99
MW-12-4	57084	MW-993-046	10	8/16/99
MW-12-5	57084	MW-993-045	10	8/16/99
MW-13	57336	MW-993-044	14	8/24/99
MW-13 Dup	57336	MW-993-043	14	8/24/99
MW-14-1	56857	MW-993-042	6	8/9/99
MW-14-2	56857	MW-993-041	6	8/9/99
MW-14-3	56857	MW-993-040	6	8/9/99
MW-14-4	56857	MW-993-039	6	8/9/99
MW-14-5	56857	MW-993-038	6	8/9/99
MW-16	57292	MW-993-037	13	8/23/99
MW-17-2	56899	MW-993-036	7	8/10/99
MW-17-3	56899	MW-993-035	7	8/10/99
MW-17-4	56899	MW-993-034	7	8/10/99
MW-17-5	56899	MW-993-033	7	8/10/99
MW-18-2	56622	MW-993-032	1	8/2/99
MW-18-3	56622	MW-993-031	1	8/2/99
MW-18-4	56622	MW-993-030	1	8/2/99
MW-18-5	56622	MW-993-029	1	8/2/99
MW-19-1	56694	MW-993-028	2	8/3/99
MW-19-2	56694	MW-993-027	2	8/3/99

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-19-3	56694	MW-993-026	2	8/3/99
MW-19-4	56694	MW-993-025	2	8/3/99
MW-19-5	56694	MW-993-024	2	8/3/99
MW-20-1	56786	MW-993-023	4	8/5/99
MW-20-2	56786	MW-993-022	4	8/5/99
MW-20-3	56786	MW-993-021	4	8/5/99
MW-20-4	56786	MW-993-020	4	8/5/99
MW-20-5	56786	MW-993-019	4	8/5/99
MW-21-1	56825	MW-993-018	5	8/6/99
MW-21-2	56825	MW-993-017	5	8/6/99
MW-21-3	56825	MW-993-016	5	8/6/99
MW-21-4	56825	MW-993-015	5	8/6/99
MW-21-5	56825	MW-993-014	5	8/6/99
MW-22-1	57045	MW-993-013	9	8/13/99
MW-22-2	57045	MW-993-012	9	8/13/99
MW-22-3	57045	MW-993-011	9	8/13/99
MW-22-4	57045	MW-993-010	9	8/13/99
MW-23-1	57292	MW-993-009	13	8/23/99
MW-23-2	57292	MW-993-008	13	8/23/99
MW-23-3	57292	MW-993-007	13	8/23/99
MW-23-4	57292	MW-993-006	13	8/23/99
MW-23-5	57292	MW-993-005	13	8/23/99
MW-24-1	57222	MW-993-004	11	8/19/99
MW-24-2	57222	MW-993-003	11	8/19/99
MW-24-3	57222	MW-993-002	11	8/19/99
MW-24-4	57222	MW-993-001	11	8/19/99

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
EB	56622	MW-993-71	1	8/2/99
TB	56622	MW-993-72	1	8/2/99
EB	56694	MW-993-73	2	8/3/99
TB	56694	MW-993-74	2	8/3/99
EB	56737	MW-993-75	3	8/4/99
TB	56737	MW-993-76	3	8/4/99
EB	56786	MW-993-77	4	8/5/99
TB	56786	MW-993-78	4	8/5/99
EB	56825	MW-993-79	5	8/6/99
TB	56825	MW-993-80	5	8/6/99
EB	56857	MW-993-81	6	8/9/99
TB	56857	MW-993-82	6	8/9/99
EB	56899	MW-993-83	7	8/10/99
TB	56899	MW-993-84	7	8/10/99
EB	56953	MW-993-85	8	8/11/99
TB	56953	MW-993-86	8	8/11/99
EB	57045	MW-993-87	9	8/13/99
TB	57045	MW-993-88	9	8/13/99
EB	57084	MW-993-89	10	8/16/99
TB	57084	MW-993-90	10	8/16/99
EB	57222	MW-993-91	11	8/19/99
TB	57222	MW-993-92	11	8/19/99
EB	57238	MW-993-93	12	8/20/99
TB	57238	MW-993-94	12	8/20/99
EB	57292	MW-993-95	13	8/23/99
TB	57292	MW-993-96	13	8/23/99
TB	57336	MW-993-97	14	8/24/99
FB	57336	MW-993-200	14	8/24/99
TB	57382	MW-993-98	15	8/25/99



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 15, 1999

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

Attention: Mark Cutler

Re: Report # 56622 (MW-993-072, MW-993-071, MW-993-029,
MW-993-030, MW-993-031, MW-993-032)
Sampled: 8/02/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100624- 08/04/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-993-030
Chloroform was detected in MW-993-030, -031
Tetrachloroethylene was detected in MW-993-030
Trichloroethylene was detected in MW-993-030, -031
Perchlorate was detected in MW-993-030

TIC's:

An unknown at retention time 4.25 was detected in MW-993-029

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



56622

NUMBER 2597
TEMP 49
REG ICE OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

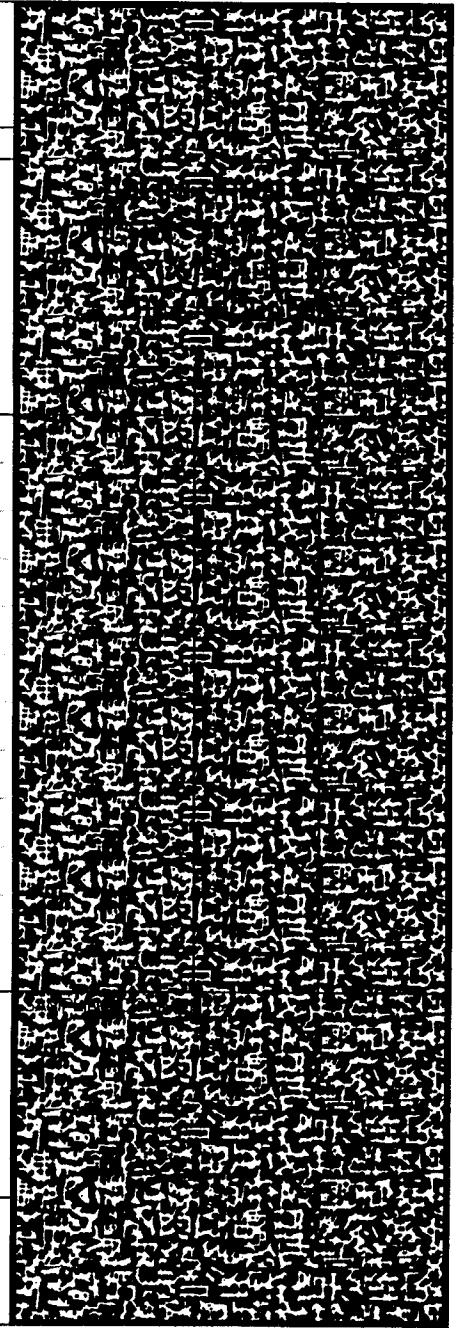
PROJECT JPL	OFS NO. 1572 0494	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS
PROJECT ADDRESS 4800 OAK GROVE DR PASADENA, CA			

SAMPLER (Name) J BRANNEL	SAMPLER (Signature) <i>J. Brannel</i>	ANALYSES REQUIRED	
LABORATORY MONTGOMERY WATSON LABS		VOCs (EPA 524)	TOXIC CR
REPORTS TO BE SENT TO M2 MAIL CUF-UC		HEX CR	POLYCYCLIC AROMATICS
		MS FOR VOCs	MS FOR VOCs
		MS MSD FOR CR	MS MSD FOR CR
		OC FOR CR	OC FOR CR

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (EPA 524)	TOXIC CR	HEX CR	POLYCYCLIC AROMATICS	MS FOR VOCs	MS FOR VOCs	MS MSD FOR CR	MS MSD FOR CR	OC FOR CR
					WATER	SOIL	OTHER (Describe)									
MW 993-072	1140	8/2/99	2	2 x 40ml	X			X								
MW 993-071	1220	[Wavy line]	5	2 x 40ml 3 x 125ml	X			X	X	X	X					
MW 993-079	1210		3	2 x 40ml 1 x 125ml	X			X	X	X	X					
MW 993-030	1305		5	2 x 40ml 3 x 125ml	X			X	X	X	X					
MW 993-031	1350		5	2 x 40ml 1 x 125ml	X			X	X	X	X				X	
MW 993-032	1445		5	2 x 40ml 2 x 125ml	X			X	X	X	X			X		
MW 993-028MS	1445		2	2 x 40ml	X							X				
MW 993-028MS	1445		2	2 x 40ml	X								X			

LABORATORY INSTRUCTIONS/COMMENTS
LEVEL IV QA/QC

RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE 8/2/99	RECEIVED BY (Signature) <i>[Signature]</i>	RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE 8/2/99	RECEIVED BY (Signature) <i>[Signature]</i>
COMPANY [Blank]	TIME 1:42	COMPANY [Blank]	COMPANY [Blank]	TIME [Blank]	COMPANY [Blank]



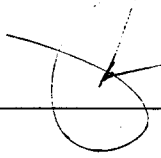
MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENMURCH

DATE RECEIVED: 8-2-99

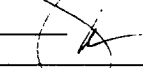
Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-2-99
By (print) MARTIN L. DE MESA (sign) 

- 1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: DELIVERED BY CLIENT
- 2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 LID OF COOLER
If yes, enter the following: seal date: 8-2-99 seal name: MLH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: MLD date: 8-2-99

B. LOGIN PHASE

Date samples were logged in: 8-2-99
By (print) M. DE MESA (sign) 

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)?
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No N/A



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

LABORATORY REPORT
SEP 07 1999
Debbie Frank

DEB* Debbie Frank

Report#: 56622
JPL

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.
 555 East Walnut Street
 Pasadena, California 91101
 Tel: 626 568 6400 Fax: 626 568 6324
 1 800 566 LABS (1 800 566 5227)

Laboratory
 Report
 #56622

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

Samples Received
 02-aug-1999 16:44:03

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-072 (990802108)				Sampled on 08/02/99				
Regulated VOCs plus Lists 1&3								
08/04/99	100624		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
08/04/99	100624		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/04/99	100624		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/04/99	100624		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56622

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Laboratory
 Report
 #56622

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-071 (990802109)				Sampled on 08/02/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/02/99	99816	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(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	101	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Laboratory
 Report
 #56622

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-029 (990802110)				Sampled on 08/02/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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 #56622

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown (RT=4.25)	1.0	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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**Laboratory
 Report
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-030 (990802111)				Sampled on 08/02/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	23	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/02/99	99816	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	3.6	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56622

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.9	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.1	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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**Laboratory
 Report
 #56622**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-031 (990802112)				Sampled on 08/02/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/02/99	99816	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56622

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.8	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.0	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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**Laboratory
 Report
 #56622**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-032 (990802113) Sampled on 08/02/99								
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/02/99	99816	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	101	‡ Rec		
			(Surrogate)	Toluene-d8	99	‡ Rec		

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Laboratory
 QC Report
 #56622

Foster Wheeler Environmental, Inc

QC Batch #99816**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802112		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	2.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	0.00

QC Batch #100624**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.79	94.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.15	103.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.54	88.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.80	95.0	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.81	95.2	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.13	103.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.02	100.5	(70.00 - 130.00)	2.7
LCS1	1,1-Dichloropropene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.38	109.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.88	97.0	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.36	109.0	(75.00 - 130.00)	

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

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Laboratory
 QC Report
 #56622

Foster Wheeler Environmental, Inc
 (continued)

MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.97	99.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.08	102.0	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.05	88.1	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.10	102.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.31	107.7	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	32.3	80.7	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.11	<u>102.8</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	4.09	102.2	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	40.3	100.7	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Benzene	4	3.99	99.8	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.37	109.2	(70.00 - 130.00)	
MSD	Benzene	4	4.23	105.8	(70.00 - 130.00)	3.3
LCS1	Bromobenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.18	109.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.34	108.5	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.02	100.5	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.05	101.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.98	99.5	(70.00 - 130.00)	1.7
LCS1	Carbon Tetrachloride	4	4.02	100.5	(70.00 - 130.00)	

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	4	3.02	75.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	3.93	98.2	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	3.99	99.8	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	2.37	118.5	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane (Methyl Chloride)	2	2.20	110.0	(70.00 - 130.00)
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.67	91.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	3.75	93.8	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.86	96.5	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.99	99.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.06	101.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	2.11	105.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.10	105.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.14	103.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	4.38	109.5	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.05	101.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.29	103.6	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.51	87.8	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.24	106.0	(70.00 - 130.00)

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Laboratory
 QC Report
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Foster Wheeler Environmental, Inc
 (continued)

MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	4.29	107.2	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.05	101.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.89	97.2	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.06	101.5	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.49	112.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97.3	97.3	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	107	107.0		
MS	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	2.7
LCS1	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	89.5	89.5		
MS	Toluene-d8	100	103	103.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	94.6	94.6	(91.00 - 107.00)	8.5
LCS1	4-Bromofluorobenzene	100	108	108.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	99.1	99.1		
MS	4-Bromofluorobenzene	100	99.0	99.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	97.6	97.6	(82.00 - 119.00)	1.4
LCS1	trans-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.20	105.0	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.04	101.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.01	100.2	(70.00 - 130.00)	2.9
LCS1	Trichlorotrifluoroethane (Freon	2	2.31	115.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				

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**Laboratory
 QC Report
 #56622**

Foster Wheeler Environmental, Inc
 (continued)

MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.04	101.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.13	103.2	(70.00 - 130.00)	
MSD	Toluene	4	3.99	99.8	(70.00 - 130.00)	3.4
LCS1	Vinyl chloride (VC)	2	2.55	127.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #100831

Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	100	100.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	3.0

QC Batch #100942

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802109		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.9	94.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	9.1

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

August 31, 1999

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

Attention: Mark Cutler

Re: Report # 56694 (MW-993-074, MW-993-073, MW-993-024,
MW-993-025, MW-993-026, MW-993-027, MW-993-028)

Sampled: 8/03/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100624, date analyzed 08/04/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Tetrachloroethylene was detected in MW-993-024, -025, -026

Trichloroethylene was detected in MW-993-025, -026, -027

Perchlorate was detected in MW-993-024, -026

TIC's:

None

Method Variance:

None

Other Comments:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



5694

IER 5186

TEMP 4°C
REG ICE OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

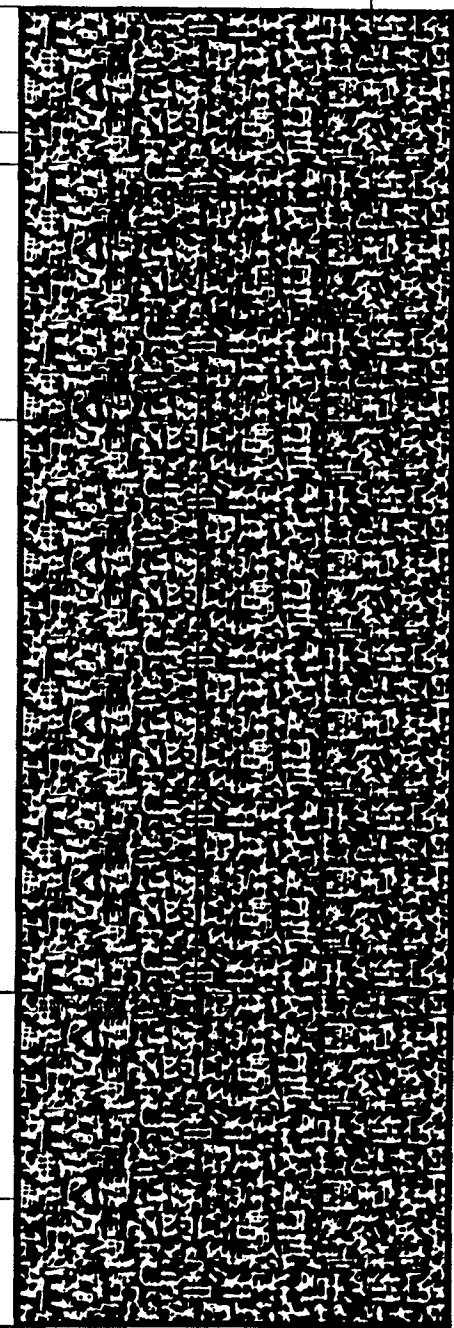
PROJECT 111	OFFS NO 111	HAZARD IDENTIFICATION Non Hazard <input type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
PROJECT ADDRESS 111		SAMPLER (Name) 111	
SAMPLER (Signature) 111		LABORATORY 111	
REPORTS TO BE SENT TO 111			

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			1	2	3	4	5	6	7	8	9	10	
					WATER	SOIL	OTHER (Describe)											
111	111	111	111	111				X										
111	111	111	111	111				X										
111	111	111	111	111				X										
111	111	111	111	111				X										
111	111	111	111	111				X										
111	111	111	111	111				X										
111	111	111	111	111				X										
111	111	111	111	111				X										

LABORATORY INSTRUCTIONS/COMMENTS
111

RELINQUISHED BY (Signature) 111	DATE 111	RECEIVED BY (Signature) 111	RELINQUISHED BY (Signature) 111	DATE 111	RECEIVED BY (Signature) 111
COMPANY 111	TIME 111	COMPANY 111	COMPANY 111	TIME 111	COMPANY 111

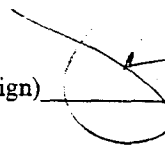


MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 8-3-99

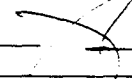
Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-3-99
By (print) M. DE ALESA (sign) 

- 1. Did cooler come with shipping slip (air bill, etc.)?
If yes, attach and enter carrier and air bill number here: DEL BY CLIPIT Yes No
- 2. Were custody seals on outside of cooler?
If yes, how many and where: 2 OUTSIDE LID Yes No
If yes, enter the following: seal date: 8-3-99 seal name: MLH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: MLH date: 8-3-99

B. LOGIN PHASE

Date samples were logged in: 8-3-99
By (print) M. DE ALESA (sign) 

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)?
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No



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Laboratory Report

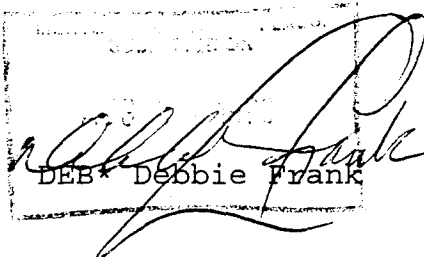
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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


DEB Debbie Frank

Report#: 56694
JPL

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Laboratory
 Report
 #56694

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

Samples Received
 03-aug-1999 18:37:18

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-074 (990803271)				Sampled on 08/03/99				
Regulated VOCs plus Lists 1&3								
08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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Laboratory
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 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(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	115	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	94	‡ Rec		
			(Surrogate)	Toluene-d8	98	‡ Rec		

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Laboratory
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 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-073 (990803272)				Sampled on 08/03/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	110	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Laboratory
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 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-024 (990803273)				Sampled on 08/03/99				
08/25/99	100942	(MOD/EPA 300)	Perchlorate		4.2	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)		ND	ug/l	5.0	1
08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)		ND	ug/l	5.0	1
08/04/99	100624	(ML/EPA 524.2)	Benzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromoform		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane		ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(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	109	‡ Rec		
			(Surrogate)	Toluene-d8	98	‡ Rec		

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Laboratory
 Report
 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-025 (990803274)				Sampled on 08/03/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.7	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
 Report
 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.5	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(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	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	106	% Rec		

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Laboratory
 Report
 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-026 (990803275)				Sampled on 08/03/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	4.4	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1



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**Laboratory
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#56694**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.9	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(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	110	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory
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 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-027 (990803276)				Sampled on 08/03/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/04/99	100624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
 Report
 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/04/99	100624	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	109	‡ Rec		
			(Surrogate)	Toluene-d8	100	‡ Rec		

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Laboratory
 Report
 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-028 (990803277)				Sampled on 08/03/99				
08/25/99	100942	(MOD/EPA 300)	Perchlorate		ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
08/04/99	100624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1,1-Trichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1,2-Trichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloroethylene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,1-Dichloropropene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,3-Trichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloroethane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,2-Dichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	1,3-Dichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	2,2-Dichloropropane		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	2-Butanone (MEK)		ND	ug/l	5.0	1
08/04/99	100624	(ML/EPA 524.2)	o-Chlorotoluene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	p-Chlorotoluene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)		ND	ug/l	5.0	1
08/04/99	100624	(ML/EPA 524.2)	Benzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Chlorobenzene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Carbon Tetrachloride		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	cis-1,3-Dichloropropene		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromoform		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Chloroform (Trichloromethane)		ND	ug/l	0.50	1
08/04/99	100624	(ML/EPA 524.2)	Bromochloromethane		ND	ug/l	0.50	1

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Laboratory
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 #56694

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/04/99	08/04/99	100624	(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	108	‡ Rec		
			(Surrogate)	Toluene-d8	97	‡ Rec		

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Laboratory
 QC Report
 #56694

Foster Wheeler Environmental, Inc.

QC Batch #100624**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.79	94.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.15	103.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.54	88.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.80	95.0	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.81	95.2	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.13	103.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.02	100.5	(70.00 - 130.00)	2.7
LCS1	1,1-Dichloropropene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.38	109.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.88	97.0	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.36	109.0	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.97	99.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.08	102.0	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.05	88.1	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.10	102.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.31	107.7	(70.00 - 130.00)	

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

MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	32.3	80.7	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.11	<u>102.8</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	4.09	102.2	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	40.3	100.7	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Benzene	4	3.99	99.8	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.37	109.2	(70.00 - 130.00)	
MSD	Benzene	4	4.23	105.8	(70.00 - 130.00)	3.3
LCS1	Bromobenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.18	109.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.34	108.5	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.02	100.5	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.05	101.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.98	99.5	(70.00 - 130.00)	1.7
LCS1	Carbon Tetrachloride	4	4.02	100.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.02	75.5	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.93	98.2	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.99	99.8	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.37	118.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane (Methyl Chloride)	2	2.20	110.0	(70.00 - 130.00)	

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MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.67	91.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	3.75	93.8	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.86	96.5	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.99	99.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.06	101.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	2.11	105.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.10	105.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.14	103.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	4.38	109.5	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.05	101.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.29	103.6	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.51	87.8	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.24	106.0	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.29	107.2	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.05	101.2	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.89	97.2	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.06	101.5	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	3.92	98.0	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			

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(continued)

LCS1	sec-Butylbenzene	4	4.49	112.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97.3	97.3	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	107	107.0		
MS	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	2.7
LCS1	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	89.5	89.5		
MS	Toluene-d8	100	103	103.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	94.6	94.6	(91.00 - 107.00)	8.5
LCS1	4-Bromofluorobenzene	100	108	108.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	99.1	99.1		
MS	4-Bromofluorobenzene	100	99.0	99.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	97.6	97.6	(82.00 - 119.00)	1.4
LCS1	trans-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.20	105.0	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.04	101.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.01	100.2	(70.00 - 130.00)	2.9
LCS1	Trichlorotrifluoroethane (Freon	2	2.31	115.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.04	101.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.13	103.2	(70.00 - 130.00)	
MSD	Toluene	4	3.99	99.8	(70.00 - 130.00)	3.4
LCS1	Vinyl chloride (VC)	2	2.55	127.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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



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Laboratory
QC Report
#56694

Foster Wheeler Environmental, Inc
(continued)

QC Batch #100942

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802109		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.9	94.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	9.1

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



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 19, 1999

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

Attention: Mark Cutler

Re: Report # 56737 (MW-993-076, MW-993-067, MW-993-075,
MW-993-068, MW-993-069, MW-993-070)

Sampled: 8/04/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100626- 08/10/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Samples requiring dilution (with increased MRL's):

MW-993-069 was diluted for Chloroform.

MW-993-067 was diluted for Perchlorate.

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-993-069

Chloroform was detected in MW-993-069

Trichloroethylene was detected in MW-993-069

Trichlorotrifluoroethane was detected in MW-993-069

Perchlorate was detected in MW-993-067

TIC's:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



FOSTER WHEELER ENVIRONMENTAL CORPORATION

9757

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

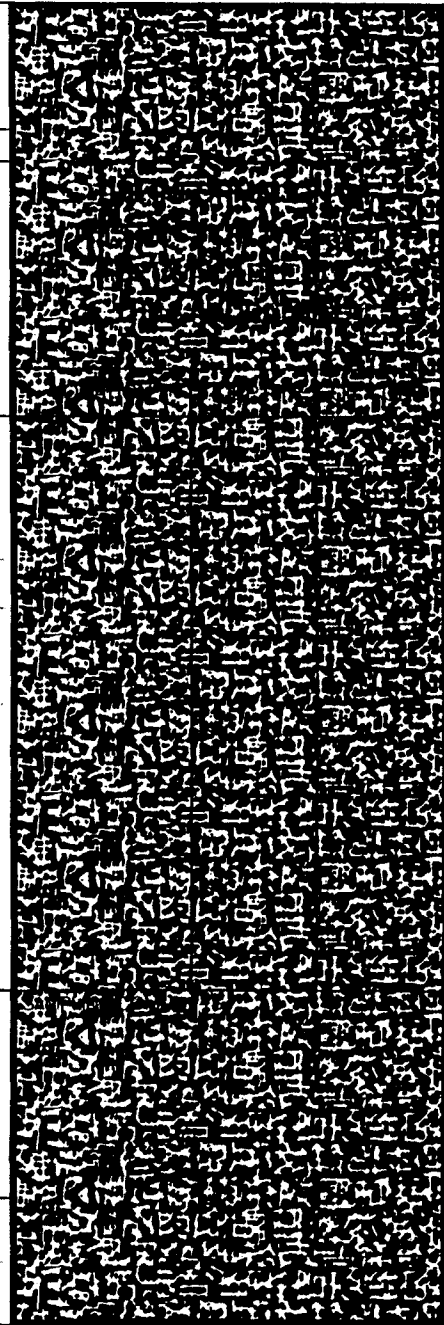
PROJECT JPL	OFS NO. 1112 0281	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
PROJECT ADDRESS 4800 1st Ave Dr Pasadena CA			

SAMPLER (Name) Tom Tappin/Kentler	SAMPLER (Signature)	ANALYSES REQUIRED	
LABORATORY MONTGOMERY WATSON LABS			
REPORTS TO BE SENT TO Mr Mark Cotton			

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (PFA)	PSYCHOTROPIC	TOTAL CHLORINE	HEAVY METALS	ALS FOR VOCs	ALS FOR VOCs	MS/MSD FOR TMTAC CHEMICALS	GC FOR CR6
					WATER	SOIL	OTHER (Describe)								
MW-113-096	0730	8/4/77	2	2x100ml	X			X							
MW-793-047	1025	}	1	1x125ml	X			X							
MW-993-075	1055		5	5x125ml	X			X	X	X	X				
MW-77-048	1135		5	5x125ml	X			X	X	X	Y		X		
MW-77-080	1135		2	2x100ml	X						X				
MW-795-068	1135		2	2x100ml	X							X			
MW-715-061	1220		5	5x125ml	X			X	X	X	Y				
MW-795-090	1530		5	5x125ml	X			X	X	X	Y			X	

LABORATORY INSTRUCTIONS/COMMENTS
LEVEL III WA/RC

RELINQUISHED BY (Signature) Tom Tappin	DATE 8/4/77	RECEIVED BY (Signature) [Signature]	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY Foster Wheeler	TIME 1:00	COMPANY Foster Wheeler	COMPANY	TIME	COMPANY




MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSRCH DATE RECEIVED: 8-4-99

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

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-4-99
By (print) MIKE CHIANG (sign) 

- 1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
- 2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 seals, out of lid
If yes, enter the following: seal date: 8-4-99 seal name: MLH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: M date: 8-4-99

B. LOGIN PHASE

Date samples were logged in: 8-4-99
By (print) _____ (sign) _____

- 9. Describe packing: Packed in plastic bag by Sample ID.
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)? yes
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No



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Laboratory Report

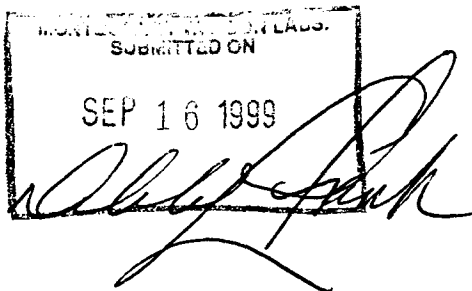
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 56737
JPL

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Laboratory
 Report
 #56737

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

Samples Received
 04-aug-1999 16:48:27

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-076 (990804146)				Sampled on 08/04/99				
Regulated VOCs plus Lists 1&3								
08/10/99	100626	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
08/10/99	100626	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/10/99	100626	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/10/99	100626	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1



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**Laboratory
 Report
 #56737**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100626	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100626	(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	116	‡ Rec		
			(Surrogate)	Toluene-d8	101	‡ Rec		

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Laboratory
 Report
 #56737

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-067 (990804147)				Sampled on 08/04/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	140	ug/l	20	5
MW-993-075 (990804148)				Sampled on 08/04/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/04/99	100047	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100626	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Laboratory
 Report
 #56737

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100626	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100626	(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	113	† Rec		

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Laboratory
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 #56737

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	96	‡ Rec		
			(Surrogate)	Toluene-d8	100	‡ Rec		
MW-993-068 (990804149)				Sampled on 08/04/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/04/99	100047	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100626	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100626	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100626	(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	116	† Rec		
			(Surrogate)	4-Bromofluorobenzene	97	† Rec		

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	97	% Rec		
MW-993-069 (990804150)				Sampled on 08/04/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/04/99	100047	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100626	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Carbon Tetrachloride	15	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1



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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100626	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroform (Trichloromethane)	37	ug/l	1.0	2
	08/10/99	100626	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.0	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	0.8	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	† Rec		
			(Surrogate)	4-Bromofluorobenzene	98	† Rec		
			(Surrogate)	Toluene-d8	96	† Rec		

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-070 (990804151)				Sampled on 08/04/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/04/99	100047	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100626	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100626	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56737

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100626	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100626	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100626	(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	98	‡ Rec		
			(Surrogate)	Toluene-d8	98	‡ Rec		

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Laboratory
 QC Report
 #56737

Foster Wheeler Environmental, Inc

QC Batch #100047**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0804151		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(78.00 - 118.00)	3.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	0.00

QC Batch #100626**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.54	88.5	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.63	90.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.63	90.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.41	85.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	2.96	74.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.27	81.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.13	103.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.02	100.5	(70.00 - 130.00)	2.7
LCS1	1,1-Dichloropropene	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.56	89.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.74	93.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.69	92.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.64	91.0	(75.00 - 130.00)	

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 (continued)

MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.80	95.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.85	85.6	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.95	98.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.76	94.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	40.1	100.2	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.89	<u>97.2</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.80	95.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.5	103.8	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Benzene	4	3.65	91.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.37	109.2	(70.00 - 130.00)	
MSD	Benzene	4	4.23	105.8	(70.00 - 130.00)	3.3
LCS1	Bromobenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.78	89.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.81	95.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.64	91.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.05	101.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.98	99.5	(70.00 - 130.00)	1.7
LCS1	Carbon Tetrachloride	4	3.64	91.0	(70.00 - 130.00)	

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	4	3.28	82.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	3.61	90.2	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	3.64	91.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	1.79	89.5	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane (Methyl Chloride)	2	1.79	89.5	(70.00 - 130.00)
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.58	89.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	3.42	85.5	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.59	89.8	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.67	83.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.80	90.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.16	104.0	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.90	97.5	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.77	94.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.73	96.6	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.26	81.5	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.02	100.5	(70.00 - 130.00)

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Foster Wheeler Environmental, Inc
 (continued)

MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	4.03	100.8	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.63	90.8	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.70	92.5	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.59	89.8	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.90	97.5	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.41	85.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97.2	97.2	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	111	111.0		
MS	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	2.7
LCS1	Toluene-d8	100	98.7	98.7	(91.00 - 107.00)	
MBLK	Toluene-d8	100	95.1	95.1		
MS	Toluene-d8	100	103	103.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	94.6	94.6	(91.00 - 107.00)	8.5
LCS1	4-Bromofluorobenzene	100	102	102.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	98.3	98.3		
MS	4-Bromofluorobenzene	100	99.0	99.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	97.6	97.6	(82.00 - 119.00)	1.4
LCS1	trans-1,2-Dichloroethylene	4	3.51	87.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.00	100.0	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.76	94.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.01	100.2	(70.00 - 130.00)	2.9
LCS1	Trichlorotrifluoroethane (Freon	2	1.92	96.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				

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Foster Wheeler Environmental, Inc
(continued)

MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.36	84.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.13	103.2	(70.00 - 130.00)	
MSD	Toluene	4	3.99	99.8	(70.00 - 130.00)	3.4
LCS1	Vinyl chloride (VC)	2	1.88	94.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #100831

Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	100	100.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	3.0

QC Batch #100942

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802109		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.9	94.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	9.1

QC Batch #101069

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0807013		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	22	<u>110.0</u>	(90.00 - 110.00)	9.0

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Foster Wheeler Environmental, Inc
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MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.8	119.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	23.7	118.5	(75.00 - 125.00)	0.42

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

August 31, 1999

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

Attention: Mark Cutler

Re: Report # 56786 (MW-993-078, MW-993-077, MW-993-019,
MW-993-020, MW-993-021, MW-993-022, MW-993-023)

Sampled: 8/05/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100628, date analyzed 08/10/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Bromodichloromethane was detected in MW-993-022
Chloroform was detected in MW-993-022, -023
Perchlorate was detected in MW-993-023

TIC's:

Carbonyl Sulfide (aka: Carbonic Disulfide: COS, CAS# 463-58-1) was detected in MW-993-019 (see attached spectral breakdown)

Method Variance:

None

Other Comments:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



56786

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT JPL	OFS NO. 1572-0284	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
PROJECT ADDRESS 4800 Oak Grove Dr. Pasadena CA			

SAMPLER (Name) Tania Tuopila-Kensler	SAMPLER (Signature)	ANALYSES REQUIRED	
LABORATORY MONTGOMERY WATSON LABS			
REPORTS TO BE SENT TO Mr. Mark Cutler			

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (EPA 524.2)	PERCHLORATE	TOTAL CHLORINE	Cr ⁶⁺	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR TOTAL CHROM	QC FOR Cr ⁶⁺	
					WATER	SOIL	OTHER (Describe)									
NW-993-078	0830	8/5/99	2	40 ml, 2	Y			X								
NW-993-077	0915	}	5	2x40 ml 3x125 ml	Y			X	X	X	X					
NW-993-019	0940		5	2x40 ml 3x125 ml	Y			X	X	X	X					
NW-993-020	1015		5	2x40 ml 3x125 ml	Y			X	X	X	X					
NW-993-021	1150		5	2x40 ml 3x125 ml	X			X	X	X	Y					
NW-993-022	1245		5	2x40 ml 2x125 ml, 1x250ml	X			X	X	X	Y			X	X	
NW-993-022MS	1245		2	2x40 ml	X							X				
NW-993-022MSD	1245		2	2x40 ml	X								X			
NW-993-023	1405		5	2x40 ml 3x125 ml	X			X	X	X	X					

LABORATORY INSTRUCTIONS/COMMENTS
LEVEL IV QA/QC


RELINQUISHED BY (Signature) <i>Tania Tuopila-Kensler</i>	DATE 8/5/99	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE 8/5/99	RECEIVED BY (Signature)
COMPANY FOSTER WHEELER	TIME 1648	COMPANY	COMPANY	TIME	COMPANY

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSEPCH DATE RECEIVED: 8/5/99

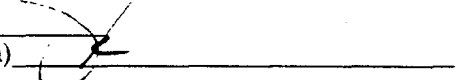
Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8/5/99
By (print) Mike Channing (sign) 

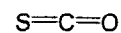
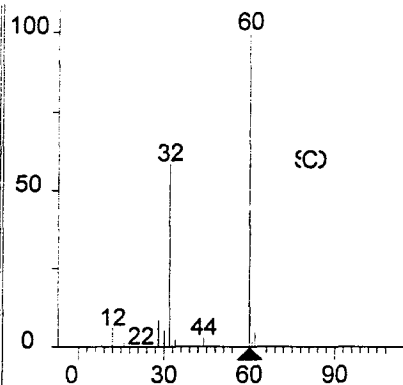
- 1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
- 2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 9 out of cooler's lid
If yes, enter the following: seal date: 8/5/99 seal name: TT
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: MC date: 8/5/99

B. LOGIN PHASE

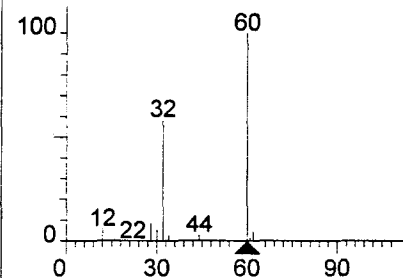
Date samples were logged in: 8-6-99
By (print) M. De Mesa (sign) 

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)? Yes
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No

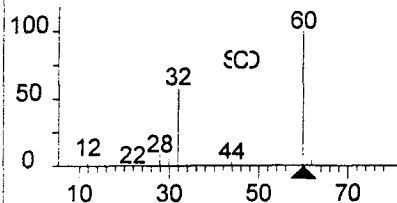
Carbonyl fluoride
 Carbonyl sulfide
 Carbophenothion
 Carbophenothion methyl
 Carbophenothion oxon sulfone
 Carbophenothion sulfone
 Carbophenoxon
 Carbophenoxon sulfone
 Carbophenoxon sulfoxide
 Carbophos
 Carboranylmethyl ethyl sulfide



(M)Carbonyl sulfide



1 (M)Carbonyl sulfide



(M)Carbonyl sulfide

Carbonyl sulfide

Formula: COS

MW: 60 CAS#: 463-58-1

NIST#: 19006 ID#: 20055

DB: mainlib

Other DBs: Fine, TSCA, RTECS, EP

18 Masses and Abundances

12	60	30	52	45	1
13	1	31	2	46	2
16	13	32	586	48	1
22	1	33	5	60	999
28	84	34	26	61	17
29	1	44	30	62	46

Synonyms:

1. Carbon oxide sulfide
2. Carbon oxide sulfide (COS)
3. Carbon oxysulfide
4. COS
5. Oxycarbon sulfide
6. UN 2204



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Pasadena, California 91101
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Laboratory Report

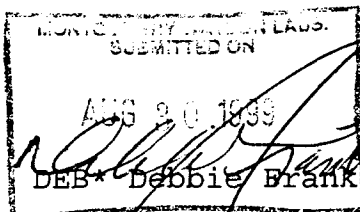
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



Report#: 56786
JPL

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Laboratory
 Report
 #56786

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

Samples Received
 05-aug-1999 15:56:00

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-078 (990806154)				Sampled on 08/05/99				
Regulated VOCs plus Lists 1&3								
08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	95	‡ Rec		
			(Surrogate)	Toluene-d8	99	‡ Rec		

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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-077 (990806155)				Sampled on 08/05/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/99	100221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100628	(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	116	† Rec		
			(Surrogate)	4-Bromofluorobenzene	98	† Rec		
			(Surrogate)	Toluene-d8	93	† Rec		



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**Laboratory
 Report
 #56786**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-019 (990806157)				Sampled on 08/05/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/99	100221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbonyl sulfide	0.7	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	111	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	105	‡ Rec		
			(Surrogate)	Toluene-d8	100	‡ Rec		

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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-020 (990806158)				Sampled on 08/05/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/99	100221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(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	117	† Rec		
			(Surrogate)	4-Bromofluorobenzene	106	† Rec		
			(Surrogate)	Toluene-d8	99	† Rec		

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-021 (990806159)				Sampled on 08/05/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/99	100221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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 Pasadena, California 91101
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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(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	104	† Rec		
			(Surrogate)	Toluene-d8	95	† Rec		

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Laboratory
 Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-022 (990806160)				Sampled on 08/05/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/99	100221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56786

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.8	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	0.6	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/10/99	100628	(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	120	† Rec		
			(Surrogate)	4-Bromofluorobenzene	104	† Rec		
			(Surrogate)	Toluene-d8	103	† Rec		

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-023 (990806161)				Sampled on 08/05/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	7.5	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/99	100221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/10/99	100628	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/10/99	100628	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/10/99	100628	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/10/99	08/10/99	100628	(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	115	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	97	‡ Rec		
			(Surrogate)	Toluene-d8	99	‡ Rec		

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Laboratory
 QC Report
 #56786

Foster Wheeler Environmental, Inc

QC Batch #100221**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	1.9

QC Batch #100628**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.54	88.5	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.63	90.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.63	90.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.41	85.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	2.96	74.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.27	81.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.31	82.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	4.4
LCS1	1,1-Dichloropropene	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.56	89.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.74	93.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.69	92.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.64	91.0	(75.00 - 130.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Laboratory
 QC Report
 #56786

Foster Wheeler Environmental, Inc
 (continued)

MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.80	95.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.85	85.6	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.95	98.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.76	94.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	40.1	100.2	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.89	<u>97.2</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.80	95.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.5	103.8	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Benzene	4	3.65	91.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.70	92.5	(70.00 - 130.00)	
MSD	Benzene	4	3.82	95.5	(70.00 - 130.00)	3.2
LCS1	Bromobenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.78	89.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.81	95.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.64	91.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.80	95.0	(70.00 - 130.00)	4.0
LCS1	Carbon Tetrachloride	4	3.64	91.0	(70.00 - 130.00)	

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Laboratory
 QC Report
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Foster Wheeler Environmental, Inc
 (continued)

MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	4	3.28	82.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	3.61	90.2	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	3.64	91.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	1.79	89.5	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane (Methyl Chloride)	2	1.79	89.5	(70.00 - 130.00)
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.58	89.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	3.42	85.5	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.59	89.8	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.67	83.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.80	90.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.16	104.0	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.90	97.5	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.77	94.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.73	96.6	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.26	81.5	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.02	100.5	(70.00 - 130.00)

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)

MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	4.03	100.8	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.63	90.8	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.70	92.5	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.59	89.8	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.90	97.5	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.41	85.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97.2	97.2	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	111	111.0		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	119	119.0	(80.00 - 127.00)	11
LCS1	Toluene-d8	100	98.7	98.7	(91.00 - 107.00)	
MBLK	Toluene-d8	100	95.1	95.1		
MS	Toluene-d8	100	92.0	92.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	100	100.0	(91.00 - 107.00)	8.3
LCS1	4-Bromofluorobenzene	100	102	102.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	98.3	98.3		
MS	4-Bromofluorobenzene	100	104	104.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	93.4	93.4	(82.00 - 119.00)	11
LCS1	trans-1,2-Dichloroethylene	4	3.51	87.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.00	100.0	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.76	94.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.58	89.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.48	87.0	(70.00 - 130.00)	2.8
LCS1	Trichlorotrifluoroethane (Freon	2	1.92	96.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.36	84.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.74	93.5	(70.00 - 130.00)	
MSD	Toluene	4	3.78	94.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	2	1.88	94.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #100833

Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	2.0

QC Batch #100944

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0809102		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.7	103.5	(90.00 - 110.00)	0.48
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.5	107.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.7	108.5	(75.00 - 125.00)	0.93

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



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 3, 1999

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

Attention: Mark Cutler

Re: Report # 56825 (MW-993-080, MW-993-079, MW-993-014,
MW-993-015, MW-993-016, MW-993-017, MW-993-018)
Sampled: 8/06/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100953, date analyzed 08/11/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

MW-993-018: The area of the Internal Standard, IS#3, 1,2-Dichlorobenzene-d4 does not meet method criteria of 70-130% of the IS in the Continuing Calibration Verification. However, it does meet the method and QAPP criteria of >50% of the area of the IS in the Initial Calibration Standard. Results are reported without Qualification. QIR GCMS-99-119.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Chloroform was detected in MW-993-014, -015, -018

Tetrachloroethylene was detected in MW-993-014, -015, -016, -017, -018

Trichloroethylene was detected in MW-993-014, -015, -016, -018

Cis-1,2-Dichloroethylene was detected in MW-993-014, -015

Perchlorate was detected in MW-993-018

TIC's:

Chlorodifluormethane was detected in MW-993-014

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

QUALITY INVESTIGATION REPORT

Analysis Date: 8/11/99, 8/12/99, 8/13/99
 Extraction Date: _____
 Analyst: col

QIR No. GCMS-99-119
 Analysis: 524.2
 Matrix: water
 Instrument ID: GCMS II

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Client ID	MW Lab #	Client Name
990809103	Ensearch	(9908076)	MW-993-042	990809103	Ensearch
990807016	↓	(MW-993-038)	MW-993-032	990809097	↓
990809097			MW-993-018	990807016	
990809099	MW-993-038	ENSEARCH			

Brief Description: (include reason for non-compliance)
 Initial QIR submitted by analyst reported IS#3, ^{2nd} ~~1st~~ ^{run} was less than 70% of CV. Subsequent review of data indicates the area of this internal standard met the second method criteria of being greater than 50% of FOC values. Data is not qualified.

Action Taken: 990809103 (original QIR GCMS-99-103) reported original 8/11/99, 9908097 (also GCMS-99-099) + removed comments regarding IS#3, 990807016, 990809099, 9909067 removed report + comments (QIR GCMS-99-119)

Impact on Data Quality: Data in original runs not qualified.

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

Other:

Annotation: IS#3 does not meet criteria of 70-130% CV, IS does meet secondary criteria of 750% CV over. Data is acceptable for reporting. ^{over}

Client Contact: msg M. Cutler 9/3 original msg 8/26 ok to Report if meets QAPP specifications per M. Cutler 8/27.

Extraction: _____
Analyst: _____
Group Leader: Michael M. B...
QA Coordinator: MB
Project Manager: ...

Date: _____
Date: _____
Date: 9/3/99
Date: 9/3/99
Date: 9/3/99



56825

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

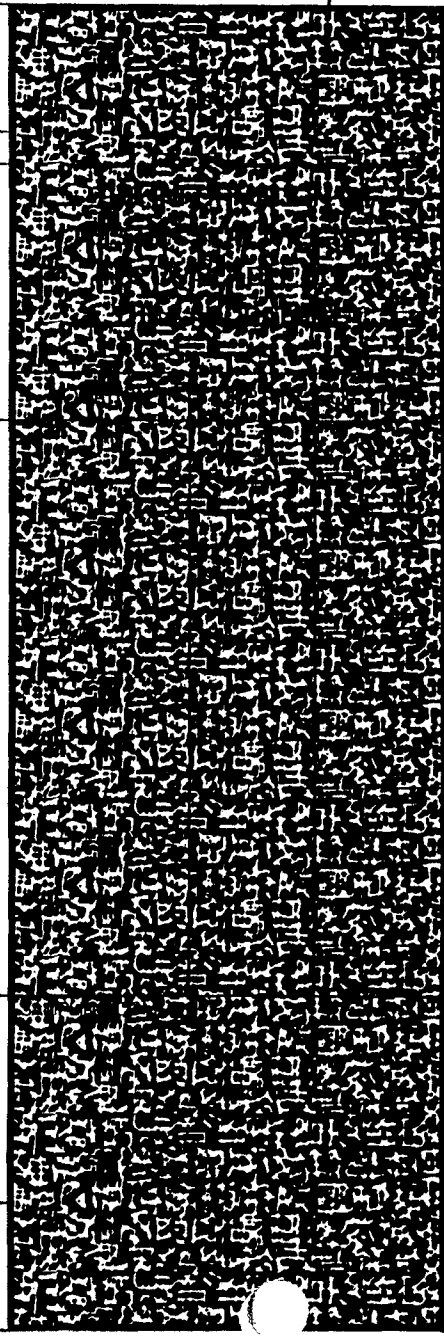
PROJECT JPL	OFS NO. 1572.0284	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
PROJECT ADDRESS 4800 OAK GROVE DR., PASADENA CA			

SAMPLER (Name) Tania Turpin Keaster	SAMPLER (Signature) <i>Tania Turpin Keaster</i>	ANALYSES REQUIRED	
LABORATORY MONTGOMERY WATSON (MS)		VOL (EPA 821.2)	PERCHLORATE
REPORTS TO BE SENT TO MR. MARK CUTLER		MS FOR VOLs	MSD FOR VOLs

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOL (EPA 821.2)	PERCHLORATE	MS FOR VOLs	MSD FOR VOLs							
					WATER	SOIL	OTHER (Describe)											
MW-993-08	0800	8/1/93	2	2 x 40 ml	X			X										
MW-993-09	0835	}	3	2 x 40 ml 1 x 125 ml	X			X	X									
MW-993-04	0830		3	2 x 40 ml 1 x 125 ml	X			X	X									
MW-993-015	0925		3	2 x 40 ml 1 x 125 ml	X			X	X									
MW-993-05MS	0925		2	2 x 40 ml	X					X								
MW-993-015MS	0925		2	2 x 40 ml	X						X							
MW-993-016	0955		3	2 x 40 ml 1 x 125 ml	X			X	X									
MW-993-017	1030		3	2 x 40 ml 1 x 125 ml	X			X	X									
MW-993-018	1110		3	2 x 40 ml 1 x 125 ml	X			X	X									

LABORATORY INSTRUCTIONS/COMMENTS
LEVEL IV QA/QC

RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE	RECEIVED BY (Signature) <i>[Signature]</i>	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY



MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 8-6-99

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

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-6-99
By (print) Mike Chiang (sign) [Signature]

- 1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
- 2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2, outside of cooler
If yes, enter the following: seal date: 8-6-99 seal name: MCH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: [Signature] date: 8-6-99

B. LOGIN PHASE

Date samples were logged in: 8-7-99
By (print) Mike Chiang (sign) [Signature]

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)? Yes
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No



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Laboratory Report

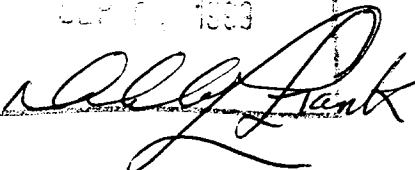
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

SEP 11 1999


DEB* Debbie Frank

Report#: 56825
JPL

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Laboratory
Report
#56825

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

Samples Received
07-aug-1999 11:05:41

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-080 (990807010) Sampled on 08/06/99								
Regulated VOCs plus Lists 1&3								
08/11/99	100953		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
08/11/99	100953		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/11/99	100953		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/11/99	100953		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	115	‡ Rec		
			(Surrogate)	Toluene-d8	102	‡ Rec		

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Laboratory
 Report
 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-079 (990807011)				Sampled on 08/06/99				
	08/25/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	112	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	100	‡ Rec		
			(Surrogate)	Toluene-d8	99	‡ Rec		

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-014 (990807012)				Sampled on 08/06/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	1.6	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	9.6	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Chlorodifluoromethane	1.4	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	114	µ Rec		
			(Surrogate)	4-Bromofluorobenzene	96	µ Rec		
			(Surrogate)	Toluene-d8	105	µ Rec		

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Laboratory
 Report
 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-015 (990807013)				Sampled on 08/06/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	1.2	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	6.1	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	119	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	103	‡ Rec		
			(Surrogate)	Toluene-d8	100	‡ Rec		

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Laboratory
 Report
 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-016 (990807014)				Sampled on 08/06/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.3	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/11/99	08/11/99	100953	(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	120	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	97	‡ Rec		
			(Surrogate)	Toluene-d8	98	‡ Rec		

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-017 (990807015)				Sampled on 08/06/99				
08/26/99	101069	(MOD/EPA 300)	Perchlorate		ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)		ND	ug/l	5.0	1
08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)		ND	ug/l	5.0	1
08/11/99	100953	(ML/EPA 524.2)	Benzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Bromobenzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Bromoform		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)		ND	ug/l	0.50	1
08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane		ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.8	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	116	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	101	‡ Rec		
			(Surrogate)	Toluene-d8	105	‡ Rec		

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Laboratory
 Report
 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-018 (990807016)				Sampled on 08/06/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	12	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.7	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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 #56825

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.5	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	17	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	127	µ Rec		
			(Surrogate)	4-Bromofluorobenzene	98	µ Rec		
			(Surrogate)	Toluene-d8	110	µ Rec		



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(990807016)

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Area of internal standard 1,2-dichlorobenzene-d4 was less than 70% of the CCV; however, the second method criteria is met. The area is greater than 50% of the ICAL area. Data is not qualified. QIR-GCMS-99-119



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Laboratory
 QC Report
 #56825

Foster Wheeler Environmental, Inc

QC Batch #100944

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0809102		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.7	103.5	(90.00 - 110.00)	0.48
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.5	107.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.7	108.5	(75.00 - 125.00)	0.93

QC Batch #100953

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.86	96.5	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.86	96.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.03	100.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.21	80.2	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.51	87.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.31	82.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	4.4
LCS1	1,1-Dichloropropene	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.75	93.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.57	89.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.76	94.0	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.16	104.0	(75.00 - 130.00)	

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

MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.01	100.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.49	87.2	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.76	84.5	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.71	92.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.65	91.2	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	49.6	124.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.75	<u>93.8</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.55	88.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	43.2	108.0	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Benzene	4	3.77	94.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.70	92.5	(70.00 - 130.00)	
MSD	Benzene	4	3.82	95.5	(70.00 - 130.00)	3.2
LCS1	Bromobenzene	4	3.32	83.0	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.80	90.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.91	97.8	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.64	91.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.80	95.0	(70.00 - 130.00)	4.0
LCS1	Carbon Tetrachloride	4	3.87	96.8	(70.00 - 130.00)	

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(continued)

MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	4	4.05	101.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	3.68	92.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	2.04	102.0	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane (Methyl Chloride)	2	1.92	96.0	(70.00 - 130.00)
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	4.06	101.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	4.02	100.5	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	4.11	102.8	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.34	108.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.86	93.0	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.96	98.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	3.42	85.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.64	91.0	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.53	88.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.83	97.9	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.22	80.5	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	3.91	97.8	(70.00 - 130.00)

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Foster Wheeler Environmental, Inc
(continued)

MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.13	103.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.73	93.2	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.41	85.2	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.49	87.2	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.68	92.0	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	106	106.0		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	119	119.0	(80.00 - 127.00)	11
LCS1	Toluene-d8	100	98.4	98.4	(91.00 - 107.00)	
MBLK	Toluene-d8	100	97.8	97.8		
MS	Toluene-d8	100	92.0	92.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	100	100.0	(91.00 - 107.00)	8.3
LCS1	4-Bromofluorobenzene	100	104	104.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	97.8	97.8		
MS	4-Bromofluorobenzene	100	104	104.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	93.4	93.4	(82.00 - 119.00)	11
LCS1	trans-1,2-Dichloroethylene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.55	88.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.49	87.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.58	89.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.48	87.0	(70.00 - 130.00)	2.8
LCS1	Trichlorotrifluoroethane (Freon	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				

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



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 Pasadena, California 91101
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Laboratory
 QC Report
 #56825

Foster Wheeler Environmental, Inc
 (continued)

MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.65	91.2	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.74	93.5	(70.00 - 130.00)	
MSD	Toluene	4	3.78	94.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	2	2.13	106.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #101069

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0807013		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	22	<u>110.0</u>	(90.00 - 110.00)	9.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.8	119.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	23.7	118.5	(75.00 - 125.00)	0.42

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



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 3, 1999

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

Attention: Mark Cutler

Re: Report # 56857 (MW-993-082, MW-993-081, MW-993-038,
MW-993-039, MW-993-040, MW-993-041, MW-993-042)
Sampled: 8/09/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100959- 08/12/99, 100953-8/11/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

MW-993-082, -038, -042: The area of the Internal Standard, IS#3, 1,2-Dichlorobenzene-d4 does not meet method criteria of 70-130% of the IS in the Continuing Calibration Verification. However, it does meet the method and QAPP criteria of >50% of the area of the IS in the Initial Calibration Standard. Results are reported without Qualification. QIR GCMS-99-119.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

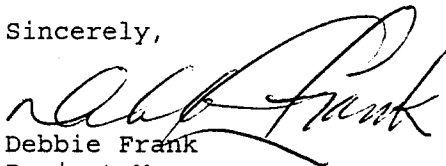
Comments:

1,1-Dichloroethane was detected in MW-993-042
Tetrachloroethylene was detected in MW-993-041
Perchlorate was detected in MW-993-039, -040

TIC's:

None

Sincerely,



Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

QUALITY INVESTIGATION REPORT

Analysis Date: 8/11/99, 8/12/99, 8/13/99
 Extraction Date: _____
 Analyst: col

QIR No. GCMS-99-119
 Analysis: 524.2
 Matrix: water
 Instrument ID: GCMS II

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Client ID / Lab #	MW Lab #	Client Name
990809103	Ensearch		MW-993-042	990809103	ENSEARCH
990809076	↓	(9908076)	MW-993-032	990809097	
990809097		(MW-993-018)	MW-993-018	990807016	
990809099	MW-993-038	ENSEARCH			

Brief Description: (include reason for non-compliance)

Initial QIR submitted by analyst reported IS#3, ^{2nd} 1st decy was less than 70% of CV. Subsequent review of data indicates the area of this internal standard met the second method criteria of being greater than 50% of FCB values. Data is not qualified.

Action Taken: 990809103 (Original QIR GCMS-99-103) reported original 8/11/99. 9908097 (also GCMS-99-099) + removed comments regarding IS#3. 990807016, 990809099, 9909067 removed report + comments (QIR GCMS-99-119)

Impact on Data Quality: Data in original runs not qualified.

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

Other: _____

Annotation: IS#3 does not meet criteria of 70-130% CV, it does meet secondary criteria of 750% cell area. Data is acceptable.

Client Contact: mssg m. cutter 9/13 original mssg 8/26 ok to Report if meets QAPP specifications per M. cutter 8/27.

Extraction: _____ **Date:** _____
Analyst: _____ **Date:** _____
Group Leader: Michael McKeown **Date:** 9/3/99
QA Coordinator: MB Cox **Date:** 9/3/99
Project Manager: Michael McKeown **Date:** 9/3/99



56857

NUMBER 3490

TEMP = 4°C

B.I = F.I.M.

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

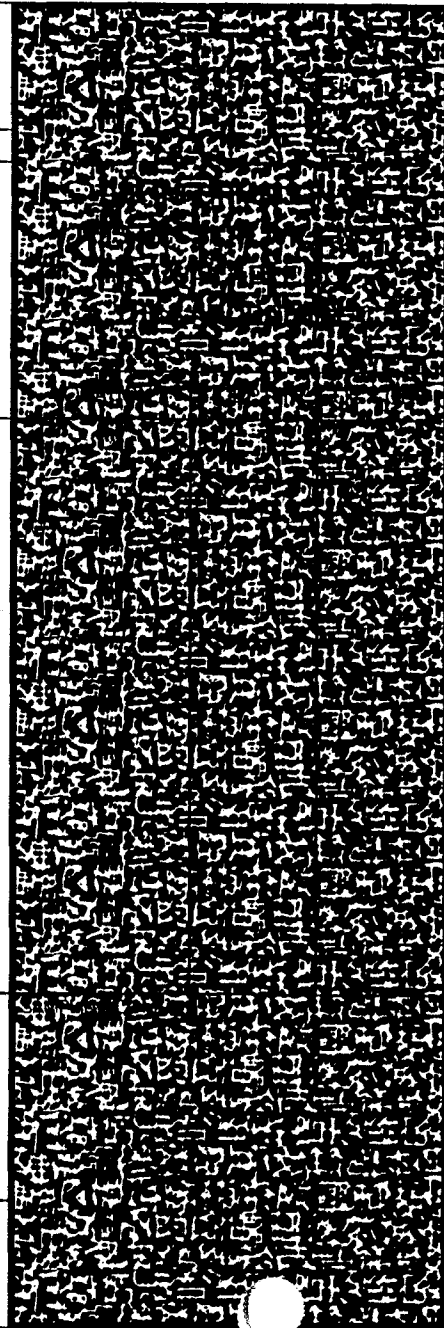
PAGE 1 OF 1

PROJECT JPL	OFS NO. 1512.0284	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS																														
PROJECT ADDRESS 4800 Oak Grove Dr. Pasadena, CA		ANALYSES REQUIRED																															
SAMPLER (Name) Mathew L. Hunt	SAMPLER (Signature) <i>Mathew L. Hunt</i>	<table border="1"> <tr> <td>VOCs (EPA 504.2)</td> <td>Total Cr</td> <td>Cr Gt</td> <td>Perchlorate</td> <td>QC for Cr Gt</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		VOCs (EPA 504.2)	Total Cr	Cr Gt	Perchlorate	QC for Cr Gt																									
VOCs (EPA 504.2)	Total Cr			Cr Gt	Perchlorate	QC for Cr Gt																											
LABORATORY Montgomery Watson Labs		REPORTS TO BE SENT TO Mr. Mark Cutler																															

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (EPA 504.2)	Total Cr	Cr Gt	Perchlorate	QC for Cr Gt							
					WATER	SOIL	OTHER (Describe)												
MW-993-082	0815	8/9/99	2	2x 40 ml	X			X											
MW-993-081	0930	}	5	2x 40 ml 3x 125 ml	X			X	X	X									
MW-993-038	0910		3	2x 40 ml 1x 125 ml	X			X	X	X									
MW-993-039	0955		5	2x 40 ml 2x 125 ml	X			X	X	X									
MW-993-040	1035		5	2x 40 ml 3x 125 ml	X			X	X	X									
MW-993-041	1115		5	2x 40 ml 3x 125 ml	X			X	X	X									
MW-993-042	1155		5	2x 40 ml 3x 125 ml	X			X	X	X		X							

LABORATORY INSTRUCTIONS/COMMENTS
Level IV QA/QC

RELINQUISHED BY (Signature) <i>Mathew L. Hunt</i>	DATE 8/11/99	RECEIVED BY (Signature) <i>Mark Cutler</i>	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY Foster Wheeler	TIME 11:55	COMPANY Foster Wheeler	COMPANY	TIME	COMPANY



MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERU DATE RECEIVED: 8-9-99

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

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-9-99
By (print) M. DE WESA (sign) [Signature]

- 1. Did cooler come with shipping slip (air bill, etc.)?
If yes, attach and enter carrier and air bill number here: DEL BY CLEVER Yes No
- 2. Were custody seals on outside of cooler?
If yes, how many and where: 2 TOP LID Yes No
If yes, enter the following: seal date: 8-9-99 seal name: MLH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: MLH date: 8-9-99

B. LOGIN PHASE

Date samples were logged in: 8-9-99
By (print) M. DE WESA (sign) [Signature]

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)?
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No



MONTGOMERY WATSON LABORATORIES

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

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

DEB* Debbie Frank

Report#: 56857
JPL



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

Laboratory
Report
#56857

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

Samples Received
09-aug-1999 16:18:51

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-082 (990809097)				Sampled on 08/09/99				
Regulated VOCs plus Lists 1&3								
08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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 555 East Walnut Street
 Pasadena, California 91101
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Laboratory
 Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	119	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	99	‡ Rec		
			(Surrogate)	Toluene-d8	101	‡ Rec		

**MONTGOMERY WATSON LABORATORIES**

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Laboratory
 Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-081 (990809098)				Sampled on 08/09/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/09/99	100220	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	116	† Rec		
			(Surrogate)	4-Bromofluorobenzene	100	† Rec		
			(Surrogate)	Toluene-d8	105	† Rec		



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**Laboratory
 Report
 #56857**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-038 (990809099) Sampled on 08/09/99								
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrchloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	113	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	102	‡ Rec		
			(Surrogate)	Toluene-d8	103	‡ Rec		

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Laboratory
 Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-039 (990809100)				Sampled on 08/09/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	4	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/09/99	100220	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	106	‡ Rec		
			(Surrogate)	Toluene-d8	98	‡ Rec		

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Laboratory
 Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-040 (990809101)				Sampled on 08/09/99				
	08/25/99	100942	(MOD/EPA 300)	Perchlorate	6.6	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/09/99	100220	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrchloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	105	‡ Rec		
			(Surrogate)	Toluene-d8	98	‡ Rec		

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Laboratory
 Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-041 (990809102)				Sampled on 08/09/99				
	08/25/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/09/99	100220	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.0	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	113	‡ Rec		
			(Surrogate)	Toluene-d8	101	‡ Rec		

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Laboratory
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 #56857

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-042 (990809103)				Sampled on 08/09/99				
	08/26/99	100944	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/09/99	100220	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/11/99	100953	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethane	1.7	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/99	100953	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/11/99	100953	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/99	100953	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/99	100953	(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	98	† Rec		
			(Surrogate)	Toluene-d8	100	† Rec		

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Report
Comments
#56857

(990809097)

@EBASVOA

The area of internal standard #3, 1,2-dichlorobenzene-d4 was less than 70% of the CCV; however, the second method criteria is met, the area is greater than 50% of the ICAL area. The data is not qualified. QIR-GCMS-99-119

(990809099)

@EBASVOA

The area of internal standard #3, 1,2-dichlorobenzene-d4 was less than 70% of the CCV; however, the second method is met. The area is greater than 50% of the ICAL area. The data is not qualified. QIR-GCMS-99-119

(990809103)

@EBASVOA

The area of internal standard #3, 1,2-dichlorobenzene-d4, was less than 70% of the CCV; however, the response meets second criteria of being greater than 50% of ICAL area. Data is not qualified. QIR GCMS-99-119



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Laboratory
 QC Report
 #56857

Foster Wheeler Environmental, Inc

QC Batch #100220

Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0809103		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(78.00 - 118.00)	1.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.046	92.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.044	88.0	(80.00 - 120.00)	4.4

QC Batch #100833

Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	2.0

QC Batch #100942

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802109		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.9	94.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	9.1

QC Batch #100944

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0809102		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.7	103.5	(90.00 - 110.00)	0.48

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QC Report
#56857

Foster Wheeler Environmental, Inc
(continued)

MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.5	107.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.7	108.5	(75.00 - 125.00)	0.93

QC Batch #100953

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.86	96.5	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.86	96.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.03	100.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.21	80.2	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.51	87.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.31	82.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	4.4
LCS1	1,1-Dichloropropene	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.75	93.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.57	89.2	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.76	94.0	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.16	104.0	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.01	100.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.49	87.2	(70.00 - 130.00)	

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Laboratory
 QC Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.76	84.5	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.71	92.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.65	91.2	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	49.6	124.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.75	<u>93.8</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.55	88.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	43.2	108.0	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Benzene	4	3.77	94.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.70	92.5	(70.00 - 130.00)	
MSD	Benzene	4	3.82	95.5	(70.00 - 130.00)	3.2
LCS1	Bromobenzene	4	3.32	83.0	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.80	90.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.91	97.8	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.64	91.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.80	95.0	(70.00 - 130.00)	4.0
LCS1	Carbon Tetrachloride	4	3.87	96.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	4.05	101.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				

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QC Report
#56857

Foster Wheeler Environmental, Inc
(continued)

LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	3.68	92.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	2.04	102.0	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane (Methyl Chloride)	2	1.92	96.0	(70.00 - 130.00)
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	4.06	101.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	4.02	100.5	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	4.11	102.8	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.34	108.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.86	93.0	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.96	98.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	3.42	85.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.64	91.0	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.53	88.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.83	97.9	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.22	80.5	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	3.91	97.8	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	3.85	96.2	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.13	103.2	(72.00 - 118.00)

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Laboratory
 QC Report
 #56857

Foster Wheeler Environmental, Inc
 (continued)

MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.73	93.2	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.41	85.2	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.49	87.2	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.68	92.0	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	106	106.0		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	119	119.0	(80.00 - 127.00)	11
LCS1	Toluene-d8	100	98.4	98.4	(91.00 - 107.00)	
MBLK	Toluene-d8	100	97.8	97.8		
MS	Toluene-d8	100	92.0	92.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	100	100.0	(91.00 - 107.00)	8.3
LCS1	4-Bromofluorobenzene	100	104	104.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	97.8	97.8		
MS	4-Bromofluorobenzene	100	104	104.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	93.4	93.4	(82.00 - 119.00)	11
LCS1	trans-1,2-Dichloroethylene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.55	88.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.49	87.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.58	89.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.48	87.0	(70.00 - 130.00)	2.8
LCS1	Trichlorotrifluoroethane (Freon)	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon)	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.65	91.2	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.74	93.5	(70.00 - 130.00)	

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Foster Wheeler Environmental, Inc
(continued)

MSD	Toluene	4	3.78	94.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	2	2.13	106.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 2, 1999

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

Attention: Mark Cutler

Re: Report # 56899 (MW-993-084, MW-993-083, MW-993-033,
MW-993-034, MW-993-035, MW-993-036)

Sampled: 8/10/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100965-08/13/99, 100959-8/12/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-993-035
Chloroform was detected in MW-993-033, -034, -035, -036
Trichloroethylene was detected in MW-993-033, -034, -035
Perchlorate was detected in MW-993-033, 034, -035

TIC's:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



56899

NUM 13492

TEMP 4°C
REG ICE OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL	OFS NO. 1572.0284	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
-----------------------	-----------------------------	--	--

PROJECT ADDRESS 4800 Oak Grove Dr. Pasadena, CA

SAMPLER (Name) Mathew L. Hunt	SAMPLER (Signature) <i>Mathew J. Hunt</i>
---	--

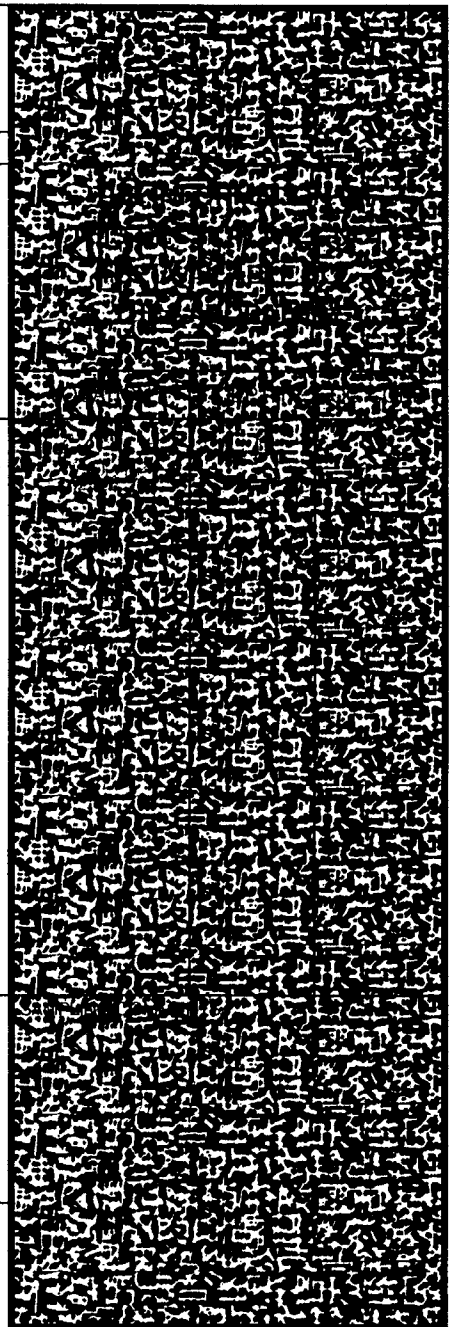
LABORATORY Montgomery Watson Labs

REPORTS TO BE SENT TO Mr. Mark Cutler

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (EPA 524.2)	Total Cr	Cr Gt	Perchlorate	MS for VOCs	MSD for VOCs	MS/MSD for Cr	QC For Cr Gt
					WATER	SOIL	OTHER (Describe)								
MW 993-084	1010	8/1/99	2	2x40ml	X			X							
MW 993-083	1105	↓	5	2x40ml, 3x125ml	X			X	X	X	X				
MW 993-033	1120		3	2x10ml, 1x125ml	X			X			X				
MW 993-034	1220		5	2x40ml, 3x125ml	X			X	X	X	X				
MW 993-035	1315		5	2x40ml, 2x125ml	X			X	X	X	X		X		
MW 993-035MS	1315		2	2x40ml	X							X			
MW 993-035MS	1315		2	2x40ml	X								X		
MW 993-036	1100		5	2x40ml, 3x125ml	X			X	X	X	X				X

LABORATORY INSTRUCTIONS/COMMENTS Level IV QA/QC	03580
---	--------------

RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE 8/1/99	RECEIVED BY (Signature) <i>[Signature]</i>	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY [Company]	TIME [Time]	COMPANY [Company]	COMPANY	TIME	COMPANY



MONTGOMERY WATSON COOLER RECEIPT FORM

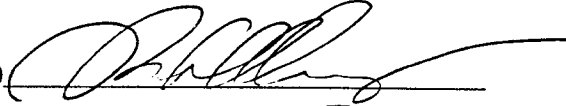
PROJECT: ENSEPCH

DATE RECEIVED: 8/10/99

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

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8/10/99

By (print) Nike Chikang (sign) 

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 out of cooler's lid
If yes, enter the following: seal date: 8/10/99 seal name: MCT
3. Were custody seals unbroken and intact at delivery? Yes No me
4. Were custody papers sealed in bag and taped to lid? Yes No
5. Were custody papers filled out properly (ink, etc.)? Yes No
6. Did you sign custody papers in appropriate place? Yes No
7. Was project identifiable from custody papers? Yes No
8. Have designated person(s) initial and acknowledge receipt: mc date: 8/10/99

B. LOGIN PHASE

Date samples were logged in: _____

By (print) _____ (sign) _____

9. Describe packing: _____
10. If required, was enough ice used? Yes No me
11. Were all bottles sealed in separate plastic bags? Yes No
12. Did all bottles arrive unbroken and in good condition? Yes No
13. Were all bottle labels complete (ID, date, sign, preservative)? Yes
14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
15. Were correct containers used for the analytes? Yes No
16. Were correct preservatives used when required? Yes No
17. Was sufficient amount of sample sent for tests? Yes No
18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
19. Was Client Services informed of problems? Yes No



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555 East Walnut Street

Pasadena, California 91101

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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

DEB* Debbie Frank

Report#: 56899
JPL

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Laboratory
 Report
 #56899

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

Samples Received
 10-aug-1999 16:40:05

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-084 (990810144)				Sampled on 08/10/99				
Regulated VOCs plus Lists 1&3								
08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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Laboratory
 Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(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	102	µg Rec		
			(Surrogate)	4-Bromofluorobenzene	111	µg Rec		
			(Surrogate)	Toluene-d8	95	µg Rec		

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Laboratory
 Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-083 (990810145)				Sampled on 08/10/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/99	100245	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/12/99	100959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(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	93	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Laboratory
 Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-033 (990810146)				Sampled on 08/10/99				
08/26/99	101069	(MOD/EPA 300)	Perchlorate		11	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
08/12/99	100959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,1,1-Trichloroethane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,1,2-Trichloroethane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethylene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloropropene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichloropropane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloroethane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloropropane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	1,3-Dichloropropane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	2,2-Dichloropropane		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	2-Butanone (MEK)		ND	ug/l	5.0	1
08/12/99	100959	(ML/EPA 524.2)	o-Chlorotoluene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	p-Chlorotoluene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)		ND	ug/l	5.0	1
08/12/99	100959	(ML/EPA 524.2)	Benzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Bromobenzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Chlorobenzene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Carbon Tetrachloride		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	cis-1,3-Dichloropropene		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Bromoform		ND	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)		1.6	ug/l	0.50	1
08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane		ND	ug/l	0.50	1

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Laboratory
 Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	4.0	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(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	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		



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**Laboratory
 Report
 #56899**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-034 (990810147)				Sampled on 08/10/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	12	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/99	100245	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.5	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(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	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		



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**Laboratory
 Report
 #56899**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-035 (990810148)				Sampled on 08/10/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	6.1	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/99	100245	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/12/99	100959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Carbon Tetrachloride	0.8	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.6	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	2.9	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(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	116	‡ Rec		
			(Surrogate)	4-Bromofluorobenzene	91	‡ Rec		
			(Surrogate)	Toluene-d8	97	‡ Rec		

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-036 (990810149)				Sampled on 08/10/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/99	100245	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.5	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		



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Laboratory
 QC Report
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Foster Wheeler Environmental, Inc

QC Batch #100245

Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0810149		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.053	106.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	5.8
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.043	86.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.045	90.0	(80.00 - 120.00)	4.5

QC Batch #100833

Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	2.0

QC Batch #100959

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.78	94.5	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.78	94.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.75	93.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.16	79.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.39	84.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.19	79.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	8.1

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Foster Wheeler Environmental, Inc
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LCS1	1,1-Dichloropropene	4	3.71	92.8	(70.00 - 130.00)
MBLK	1,1-Dichloropropene	ND			
LCS1	1,2,3-Trichlorobenzene	4	3.40	85.0	(70.00 - 130.00)
MBLK	1,2,3-Trichlorobenzene	ND			
LCS1	1,2,3-Trichloropropane	4	3.75	93.8	(70.00 - 130.00)
MBLK	1,2,3-Trichloropropane	ND			
LCS1	1,2,4-Trichlorobenzene	4	3.36	84.0	(76.00 - 114.00)
MBLK	1,2,4-Trichlorobenzene	ND			
LCS1	1,2,4-Trimethylbenzene	4	3.85	96.2	(70.00 - 130.00)
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.84	96.0	(75.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.89	97.2	(77.00 - 122.00)
MBLK	1,2-Dichloropropane	ND			
LCS1	1,3,5-Trimethylbenzene	4	3.72	93.0	(70.00 - 130.00)
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.47	80.9	(70.00 - 130.00)
LCS1	1,3-Dichloropropane	4	3.66	91.5	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.67	91.8	(77.00 - 113.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
LCS1	2,2-Dichloropropane	4	3.89	97.2	(70.00 - 130.00)
MBLK	2,2-Dichloropropane	ND			
LCS1	2-Butanone (MEK)	40	36.2	90.5	(70.00 - 130.00)
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
LCS1	o-Chlorotoluene	4	3.89	<u>97.2</u>	(0.00 - 0.00)
MBLK	o-Chlorotoluene	ND			
LCS1	p-Chlorotoluene	4	3.66	91.5	(70.00 - 130.00)
MBLK	p-Chlorotoluene	ND			
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.2	103.0	(70.00 - 130.00)
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
MS	Spiked sample	Lab # 99	0811124		(0.00 - 0.00)
LCS1	Benzene	4	3.85	96.2	(76.00 - 122.00)
MBLK	Benzene	ND			
MS	Benzene	4	3.55	88.8	(70.00 - 130.00)
MSD	Benzene	4	3.46	86.5	(70.00 - 130.00) 2.6

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Bromobenzene	4	3.57	89.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.87	93.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.55	88.8	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.73	93.2	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.44	86.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.60	90.0	(70.00 - 130.00)	4.5
LCS1	Carbon Tetrachloride	4	3.92	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.83	95.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.87	96.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.52	88.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.01	100.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane (Methyl Chloride)	2	1.88	94.0	(70.00 - 130.00)	
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.81	95.2	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.95	98.8	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.87	96.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.86	93.0	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.97	98.5	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Hexachlorobutadiene	4	3.64	91.0	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.87	96.8	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.63	90.8	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.75	96.9	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.08	77.0	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.07	101.8	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	3.95	98.8	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.87	96.8	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.63	90.8	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.76	94.0	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	3.92	98.0	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	4.06	101.5	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	3.72	93.0	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 127.00)
MBLK	1,2-dichloroethane-d4	100	115	115.0	
MS	1,2-dichloroethane-d4	100	114	114.0	(80.00 - 127.00)
MSD	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 127.00) 11
LCS1	Toluene-d8	100	102	102.0	(91.00 - 107.00)
MBLK	Toluene-d8	100	97.3	97.3	
MS	Toluene-d8	100	99.0	99.0	(91.00 - 107.00)
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00) 3.0
LCS1	4-Bromofluorobenzene	100	107	107.0	(82.00 - 119.00)
MBLK	4-Bromofluorobenzene	100	101	101.0	
MS	4-Bromofluorobenzene	100	103	103.0	(82.00 - 119.00)

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Foster Wheeler Environmental, Inc
 (continued)

MSD	4-Bromofluorobenzene	100	113	113.0	(82.00 - 119.00)	9.3
LCS1	trans-1,2-Dichloroethylene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.60	90.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.47	86.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.54	88.5	(70.00 - 130.00)	2.0
LCS1	Trichlorotrifluoroethane (Freon	2	2.13	106.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.68	92.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Toluene	4	3.45	86.2	(70.00 - 130.00)	1.2
LCS1	Vinyl chloride (VC)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #100965

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.63	90.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.69	92.2	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.61	90.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	2.96	74.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.56	89.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.19	79.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	8.1

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

**MONTGOMERY WATSON LABORATORIES**

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 Pasadena, California 91101
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Laboratory
 QC Report
 #56899

Foster Wheeler Environmental, Inc
 (continued)

LCS1	1,1-Dichloropropene	4	3.50	87.5	(70.00 - 130.00)
MBLK	1,1-Dichloropropene	ND			
LCS1	1,2,3-Trichlorobenzene	4	3.29	82.2	(70.00 - 130.00)
MBLK	1,2,3-Trichlorobenzene	ND			
LCS1	1,2,3-Trichloropropane	4	3.78	94.5	(70.00 - 130.00)
MBLK	1,2,3-Trichloropropane	ND			
LCS1	1,2,4-Trichlorobenzene	4	3.62	90.5	(76.00 - 114.00)
MBLK	1,2,4-Trichlorobenzene	ND			
LCS1	1,2,4-Trimethylbenzene	4	3.95	98.8	(70.00 - 130.00)
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.65	91.2	(75.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.88	97.0	(77.00 - 122.00)
MBLK	1,2-Dichloropropane	ND			
LCS1	1,3,5-Trimethylbenzene	4	3.74	93.5	(70.00 - 130.00)
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.27	78.4	(70.00 - 130.00)
LCS1	1,3-Dichloropropane	4	3.54	88.5	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.77	94.2	(77.00 - 113.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
LCS1	2,2-Dichloropropane	4	3.68	92.0	(70.00 - 130.00)
MBLK	2,2-Dichloropropane	ND			
LCS1	2-Butanone (MEK)	40	35.3	88.2	(70.00 - 130.00)
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
LCS1	o-Chlorotoluene	4	3.80	<u>95.0</u>	(0.00 - 0.00)
MBLK	o-Chlorotoluene	ND			
LCS1	p-Chlorotoluene	4	3.71	92.8	(70.00 - 130.00)
MBLK	p-Chlorotoluene	ND			
LCS1	4-Methyl-2-Pentanone (MIBK)	40	39.6	99.0	(70.00 - 130.00)
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
MS	Spiked sample	Lab # 99	081124		(0.00 - 0.00)
LCS1	Benzene	4	3.77	94.2	(76.00 - 122.00)
MBLK	Benzene	ND			
MS	Benzene	4	3.55	88.8	(70.00 - 130.00)
MSD	Benzene	4	3.46	86.5	(70.00 - 130.00) 2.6

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

LCS1	Bromobenzene	4	3.45	86.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.95	97.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.68	92.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.54	88.5	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.44	86.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.60	90.0	(70.00 - 130.00)	4.5
LCS1	Carbon Tetrachloride	4	3.60	90.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.01	75.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.64	91.0	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.98	99.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane (Methyl Chloride)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.58	89.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.05	101.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.41	85.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.92	96.0	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.01	100.5	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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Foster Wheeler Environmental, Inc
 (continued)

LCS1	Hexachlorobutadiene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				
LCS1	Isopropylbenzene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.53	88.2	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.45	93.1	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	2.97	74.2	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.10	102.5	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.63	90.8	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.69	92.2	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.59	89.8	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.46	86.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	105	105.0		
MS	1,2-dichloroethane-d4	100	114	114.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 127.00)	11
LCS1	Toluene-d8	100	93.6	93.6	(91.00 - 107.00)	
MBLK	Toluene-d8	100	96.8	96.8		
MS	Toluene-d8	100	99	99.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	3.0
LCS1	4-Bromofluorobenzene	100	109	109.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	106	106.0		
MS	4-Bromofluorobenzene	100	103	103.0	(82.00 - 119.00)	

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Laboratory
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 #56899

Foster Wheeler Environmental, Inc
 (continued)

MSD	4-Bromofluorobenzene	100	113	113.0	(82.00 - 119.00)	9.3
LCS1	trans-1,2-Dichloroethylene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.46	86.5	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.47	86.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.54	88.5	(70.00 - 130.00)	2.0
LCS1	Trichlorotrifluoroethane (Freon	2	2.32	116.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.48	87.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Toluene	4	3.45	86.2	(70.00 - 130.00)	1.2
LCS1	Vinyl chloride (VC)	2	2.15	107.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #101069**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0807013		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	22	<u>110.0</u>	(90.00 - 110.00)	9.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.8	119.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	23.7	118.5	(75.00 - 125.00)	0.42

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



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 3, 1999

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

Attention: Mark Cutler

Re: Report # 56953 (MW-993-086, MW-993-085, MW-993-051,
MW-993-052, MW-993-053, MW-993-054, MW-993-048, MW-993-
049, MW-993-050)
Sampled: 8/11/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 100965- 08/13/99, 100959-8/12/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

MW-993-085: The area of the Internal Standard, IS#3, 1,2-Dichlorobenzene-d4 does not meet method criteria of 70-130% of the IS in the Continuing Calibration Verification. However, it does meet the method and QAPP criteria of >50% of the area of the IS in the Initial Calibration Standard. Results are reported without Qualification. QIR GCMS-99-119
The Surrogate, 1,2-Dichloroethane-d4 recovered above QAPP and Method acceptance limits in the original run 8/12/99. The same surrogate recovered above the QAPP limits but within the method limits in the re-run 8/13/99. No analytes were detected in either run. The 8/13/99 analytical results are reported without qualification. QIR GCMS-99-120

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-993-052, -053, -048, -049
Chloroform was detected in MW-993-051, -052, -53, -048

TIC's:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

QUALITY INVESTIGATION REPORT

QIR No. GCMS-99-119
 Analysis: 524.2
 Matrix: Water
 Instrument ID: GCMS II

Analysis Date: 8/11/99, 8/12/99, 8/13/99
 Extraction Date: _____
 Analyst: CEL

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Client ID	MW Lab #	Client Name
990809103	Ensearch		MW-993-042	990809103	ENSEARCH
990809076	↓	(99080716)	MW-993-082	990809097	
990809097		(MW-993-018)	MW-993-018	990807016	
990809099	MW-993-038	ENSEARCH			

Brief Description: (include reason for non-compliance)

Initial QIR submitted by analyst reported IS#3, ^{2nd} ~~1st~~ body was less than 70% of CV. Subsequent review of data indicates the area of this internal standard met the second method criteria of being greater than 50% of ICAE values. Data is not qualified.

Action Taken: 990809103 (original QIR GCMS-99-103) reported original 8/11/99. 9908099+ (also GCMS-99-099) + removed comments regarding IS#3. 990807016, 990809099, 9909097 removed report + comments (QIR GCMS-99-119)

Impact on Data Quality: Data in original runs not qualified.

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

Other: _____

Annotation: IS#3 does not meet criteria of 70-130% CV, IS does meet secondary criteria of >50% CV. Data is acceptable for reporting.

Client Contact: mssg M. Cutler 9/3 original mssg 8/26 ok to Report if meets QAPP specifications per M. Cutler 8/27.

Extraction: _____ **Date:** _____
Analyst: _____ **Date:** _____
Group Leader: Michael M. Brown **Date:** 9/3/99
QA Coordinator: MB Cox **Date:** 9/3/99
Project Manager: Michael M. Brown **Date:** 9/3/99

QUALITY INVESTIGATION REPORT

Analysis Date: 8/12/99 + 8/13/99
 Extraction Date: _____
 Analyst: COL

QIR No. GCMS-99-120
 Analysis: 524.2
 Matrix: Water
 Instrument ID: GCMSH

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
990811122	Engauch	MW-993-085			

Brief Description: (include reason for non-compliance) original QIR GCMS-99-085
1,2-dCA-d4 recovery failed high in original run on 8/12/99 and
in Rerun on 8/13/99

Action Taken:

Impact on Data Quality: Compounds similar to 1,2-dichloroethane d4 may be biased
high due to possible matrix interactions

Ⓐ Does not meet QAPP criteria of 85-115, the run reported
meets ~~QAPP~~ method criteria of 80-120%.

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

Other:

Annotation: see (A)+(B)

Client Contact:
msg M. Culler 9/3 (B) 1,2 DCA possible high bias, Samp
as ND. No qualification of the
result is necessary.

Extraction: _____ **Date:** _____
Analyst: _____ **Date:** _____
Group Leader: Michael N. King **Date:** 9/3/99
QA Coordinator: NO Cox **Date:** 9/3/99
Project Manager: Neel Frank **Date:** 9/3/99



FOSTER WHEELER ENVIRONMENTAL CORPORATION

56953 TEMP 4°C
REG ICE
OK

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

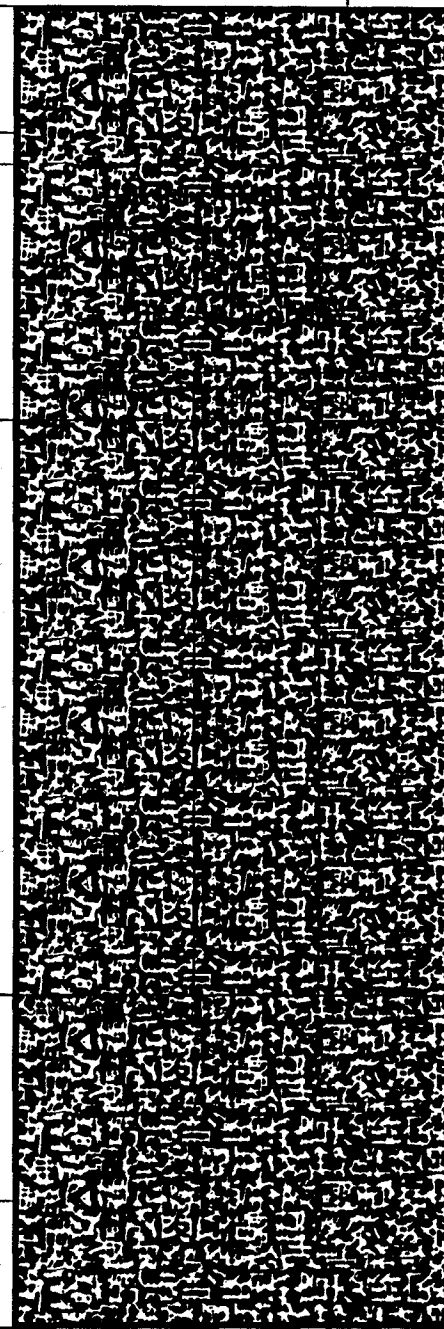
PAGE 1 OF 1

PROJECT TPL	OFS NO. 1572.0284	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS																											
PROJECT ADDRESS 4800 Oak Grove Dr. Pasadena CA		ANALYSES REQUIRED																												
SAMPLER (Name) Tania Tompkins-Kutseva	SAMPLER (Signature) <i>Tania Tompkins-Kutseva</i>	<table border="1"> <tr> <td>VOL. (EPA 512.2)</td> <td>TOTAL C</td> <td>C</td> <td>P</td> <td>MSF</td> <td>MSD</td> <td>MS/MSD</td> <td>MS/MSD</td> <td>MS/MSD</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		VOL. (EPA 512.2)	TOTAL C	C	P	MSF	MSD	MS/MSD	MS/MSD	MS/MSD																		
VOL. (EPA 512.2)	TOTAL C			C	P	MSF	MSD	MS/MSD	MS/MSD	MS/MSD																				
LABORATORY MONITORING WATSON LABS		REPORTS TO BE SENT TO Mr Mark Cutler																												

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOL. (EPA 512.2)	TOTAL C	C	P	MSF	MSD	MS/MSD	MS/MSD	MS/MSD	
					WATER	SOIL	OTHER (Describe)										
MW 993-086	0830	8/11/99	2	2x40ml	X			X									
MW 993-085	0920	8/11/99	5	2x40ml 3x125ml	X			X	X	X							
MW 993-051	0855	8/11/99	3	2x40ml 1x125ml	X			X									
MW 993-052	0950	}	5	2x40ml 2x125ml	X			X	X	X			X				
MW 993-05115	0950		2	2x40ml	X							X					
MW 993-05210	0950		2	1x40ml	X								X				
MW 993-053	1010		5	2x40ml 3x125ml	X			X	X	X	X					X	
MW 993-054	1115		5	2x40ml 3x125ml	X			X	X	X	X						
MW 993-018	1305		5	2x40ml 3x125ml	X			X	X	X	X						
MW 993-019	1320		5	2x40ml 3x125ml	X			X	X	X	X						
MW 993-050	1415		5	2x40ml 3x125ml	X			X	X	X	X						

LABORATORY INSTRUCTIONS/COMMENTS
LEVEL IV QA/QC

RELINQUISHED BY (Signature) <i>Michael J. Hunt</i>	DATE 8/11/99	RECEIVED BY (Signature) <i>[Signature]</i>	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY Foster Wheeler	TIME 15:55	COMPANY Monitor	COMPANY	TIME	COMPANY



MONTGOMERY WATSON COOLER RECEIPT FORM


PROJECT: ENSERCH

DATE RECEIVED: 8-11-99

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

A. PRELIMINARY EXAMINATION

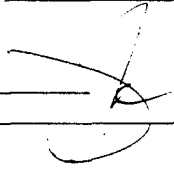
Date Cooler opened: 8-11-99

By (print) Mike Chuang (sign) 

- 1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
- 2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 seals, out of cooler's lid.
If yes, enter the following: seal date: 8-11-99 seal name: MCH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: me date: 8-11-99

B. LOGIN PHASE

Date samples were logged in: 8-11-99

By (print) M. OE WESA (sign) 

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)? Yes No
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No



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

DEB* Debbie Frank

Report#: 56953
JPL



MONTGOMERY WATSON LABORATORIES
 a Division of Montgomery Watson Americas, Inc.
 555 East Walnut Street
 Pasadena, California 91101
 Tel: 626 568 6400 Fax: 626 568 6324
 1 800 566 LABS (1 800 566 5227)

**Laboratory
 Report
 #56953**

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

Samples Received
 11-aug-1999 16:14:40

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-086 (990811121)				Sampled on 08/11/99				
Regulated VOCs plus Lists 1&3								
08/12/99	100959		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
08/12/99	100959		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/12/99	100959		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/12/99	100959		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-085 (99081122)				Sampled on 08/11/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(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	120	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Laboratory
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 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-051 (990811123)				Sampled on 08/11/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/12/99	100959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.5	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(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	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory
 Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-052 (990811124)				Sampled on 08/11/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	0.7	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.7	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(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	100	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Laboratory
 Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-053 (990811125)		Sampled on 08/11/99						
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/12/99	100959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Carbon Tetrachloride	0.5	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/ES24.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	116	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory
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 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-054 (990811126) Sampled on 08/11/99								
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/12/99	100959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/99	100959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/12/99	100959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/99	100959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/99	100959	(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	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	114	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory
 Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-048 (990811127)				Sampled on 08/11/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/18/99	08/24/99	100833	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	0.6	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(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	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory
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 #56953

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-049 (990811128)				Sampled on 08/11/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	0.5	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(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	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	112	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		



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**Laboratory
 Report
 #56953**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-050 (990811129)				Sampled on 08/11/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/99	100355	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/13/99	100965	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/99	100965	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/13/99	100965	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/99	100965	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		



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Report
Comments
#56953

(990811122)

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Sample analyzed twice and 1,2-dca-d4 recovered above QC
limit both times. Reference QIR-GCMS-099.



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Laboratory
 QC Report
 #56953

Foster Wheeler Environmental, Inc

QC Batch #100355**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0811125		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	2.0

QC Batch #100831**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	100	100.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	3.0

QC Batch #100833**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0806160		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	2.0

QC Batch #100959**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.78	94.5	(76.00 - 116.00)	

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

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Foster Wheeler Environmental, Inc
 (continued)

MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.78	94.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.75	93.8	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.16	79.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.39	84.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.19	79.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	8.1
LCS1	1,1-Dichloropropene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.40	85.0	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.75	93.8	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.36	84.0	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.84	96.0	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.89	97.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.72	93.0	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.47	80.9	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.66	91.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.67	91.8	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	36.2	90.5	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				

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Foster Wheeler Environmental, Inc
 (continued)

LCS1	o-Chlorotoluene	4	3.89	<u>97.2</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	41.2	103.0	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0811124		(0.00 - 0.00)	
LCS1	Benzene	4	3.85	96.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.55	88.8	(70.00 - 130.00)	
MSD	Benzene	4	3.46	86.5	(70.00 - 130.00)	2.6
LCS1	Bromobenzene	4	3.57	89.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.87	93.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.55	88.8	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.73	93.2	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.44	86.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.60	90.0	(70.00 - 130.00)	4.5
LCS1	Carbon Tetrachloride	4	3.92	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.83	95.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.87	96.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.52	88.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.01	100.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane (Methyl Chloride)	2	1.88	94.0	(70.00 - 130.00)	
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	3.81	95.2	(70.00 - 130.00)	

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Foster Wheeler Environmental, Inc
 (continued)

MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.81	95.2	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.95	98.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.87	96.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.86	93.0	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.97	98.5	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	3.64	91.0	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.87	96.8	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.63	90.8	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.75	96.9	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.08	77.0	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.07	101.8	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	3.95	98.8	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.87	96.8	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.63	90.8	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.76	94.0	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	3.92	98.0	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	4.06	101.5	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	3.72	93.0	(70.00 - 130.00)
MBLK	Styrene	ND			

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Foster Wheeler Environmental, Inc
 (continued)

LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	115	115.0		
MS	1,2-dichloroethane-d4	100	114	114.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 127.00)	11
LCS1	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	97.3	97.3		
MS	Toluene-d8	100	99.0	99.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	3.0
LCS1	4-Bromofluorobenzene	100	107	107.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	101	101.0		
MS	4-Bromofluorobenzene	100	103	103.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	113	113.0	(82.00 - 119.00)	9.3
LCS1	trans-1,2-Dichloroethylene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.60	90.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.47	86.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.54	88.5	(70.00 - 130.00)	2.0
LCS1	Trichlorotrifluoroethane (Freon)	2	2.13	106.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon)	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.68	92.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Toluene	4	3.45	86.2	(70.00 - 130.00)	1.2
LCS1	Vinyl chloride (VC)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #100965**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.63	90.8	(76.00 - 116.00)	

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



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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.69	92.2	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.61	90.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	2.96	74.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.56	89.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.19	79.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)	8.1
LCS1	1,1-Dichloropropene	4	3.50	87.5	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.29	82.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.62	90.5	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.65	91.2	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.88	97.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.74	93.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.27	78.4	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.54	88.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.77	94.2	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.68	92.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	35.3	88.2	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

LCS1	o-Chlorotoluene	4	3.80	<u>95.0</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	39.6	99.0	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	081124		(0.00 - 0.00)	
LCS1	Benzene	4	3.77	94.2	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.55	88.8	(70.00 - 130.00)	
MSD	Benzene	4	3.46	86.5	(70.00 - 130.00)	2.6
LCS1	Bromobenzene	4	3.45	86.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.95	97.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.68	92.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.54	88.5	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.44	86.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.60	90.0	(70.00 - 130.00)	4.5
LCS1	Carbon Tetrachloride	4	3.60	90.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.01	75.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.64	91.0	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.98	99.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane (Methyl Chloride)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	3.55	88.8	(70.00 - 130.00)	

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.58	89.5	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.05	101.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.41	85.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.92	96.0	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.01	100.5	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	3.78	94.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.92	98.0	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.53	88.2	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	7.45	93.1	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	2.97	74.2	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.10	102.5	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	3.88	97.0	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.63	90.8	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.69	92.2	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.59	89.8	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	3.81	95.2	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	4.11	102.8	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	3.46	86.5	(70.00 - 130.00)
MBLK	Styrene	ND			

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Laboratory
 QC Report
 #56953

Foster Wheeler Environmental, Inc
 (continued)

LCS1	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	105	105.0		
MS	1,2-dichloroethane-d4	100	114	114.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 127.00)	11
LCS1	Toluene-d8	100	93.6	93.6	(91.00 - 107.00)	
MBLK	Toluene-d8	100	96.8	96.8		
MS	Toluene-d8	100	99	99.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	3.0
LCS1	4-Bromofluorobenzene	100	109	109.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	106	106.0		
MS	4-Bromofluorobenzene	100	103	103.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	113	113.0	(82.00 - 119.00)	9.3
LCS1	trans-1,2-Dichloroethylene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.46	86.5	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.47	86.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.54	88.5	(70.00 - 130.00)	2.0
LCS1	Trichlorotrifluoroethane (Freon	2	2.32	116.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.48	87.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Toluene	4	3.45	86.2	(70.00 - 130.00)	1.2
LCS1	Vinyl chloride (VC)	2	2.15	107.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #101069**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0807013		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	22	<u>110.0</u>	(90.00 - 110.00)	9.0

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#56953

Foster Wheeler Environmental, Inc
(continued)

MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.8	119.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	23.7	118.5	(75.00 - 125.00)	0.42

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 7, 1999

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

Attention: Mark Cutler

Re: Report # 57045 (MW-993-088, MW-993-010, MW-993-087,
MW-993-011, MW-993-012, MW-993-013)
Sampled: 8/13/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 101237- 08/20/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130%. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Toluene-d8, the surrogate for the Matrix spike, is outside MWL internal control limits of 91-107. It is within QAPP specified limits of 85-115% and method acceptance limits of 80-120%. Results are acceptable for regulatory reporting. The Matrix Spike and Spike Duplicate, MS/MSD, recoveries for Trichloroethylene recovered above MWL acceptance Limits, 70-130%. The RPD is 7.0%. MW-993-012 was used for the MS/MSD. Trichloroethylene was not detected in this sample. The LCS and MBLK for this compound are acceptable. Results are reported without qualification. The MS recovery for Toluene is above the MWL acceptance limits of 70-130%. The RPD with the MSD is 9.2%. The LCS and MBLK are acceptable for this compound. MW-993-012 was used for the MS/MSD. Toluene was not detected in this sample. Results are reported without qualification.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

1,1-Dichloroethane was detected in MW-993-013
Tetrachloroethylene was detected in MW-993-013

TIC's:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
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Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



ER 2616

57045

TEMP. 5°C

REC USE

OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

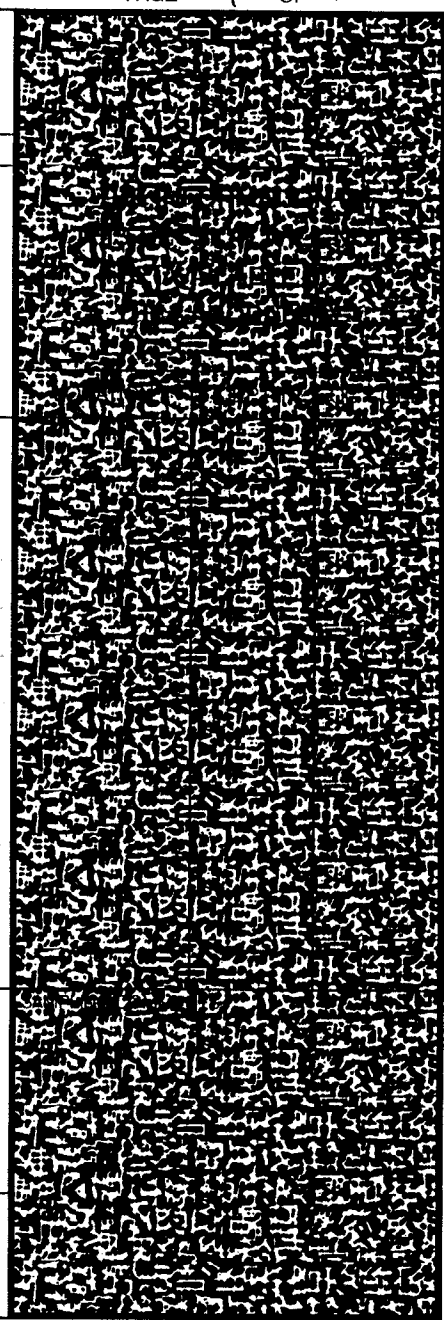
PROJECT SPL	OFS NO. 1172	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
PROJECT ADDRESS 1400 ... CA			

SAMPLER (Name) Tara ...	SAMPLER (Signature) <i>Tara ...</i>	ANALYSES REQUIRED									
LABORATORY Alameda ...		<table border="1"> <tr> <td>VOV-1 (100%)</td> <td>CV-100%</td> <td>CV-6+</td> <td>CV-104</td> <td>MS FOR VOCs</td> <td>MSD FOR VOCs</td> <td>MS/MSD FOR ...</td> <td>DE ...</td> </tr> </table>		VOV-1 (100%)	CV-100%	CV-6+	CV-104	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR ...	DE ...
VOV-1 (100%)	CV-100%	CV-6+	CV-104	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR ...	DE ...				
REPORTS TO BE SENT TO Alameda ...											

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOV-1 (100%)	CV-100%	CV-6+	CV-104	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR ...	DE ...
					WATER	SOIL	OTHER (Describe)								
...	2	...	X			X							
...	1	...	X						X				
...	5	...	X			X	X	X					
...	5	...	X			X	X	X			X		
...	5	...	X						X				
...	5	...	X							X			

LABORATORY INSTRUCTIONS/COMMENTS
LEVEL IV QA/QC

RELINQUISHED BY (Signature) <i>Tara ...</i>	DATE 3/13/97	RECEIVED BY (Signature) <i>...</i>	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY ...	TIME 14:50	COMPANY ...	COMPANY	TIME	COMPANY




MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH

DATE RECEIVED: 8-13-99

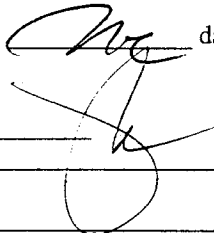
Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-13-99
By (print) MIKE DATHIANG (sign) 

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 seals, out of cooler's lid
If yes, enter the following: seal date: 8-13-99 seal name: MLH
3. Were custody seals unbroken and intact at delivery? Yes No
4. Were custody papers sealed in bag and taped to lid? Yes No
5. Were custody papers filled out properly (ink, etc.)? Yes No
6. Did you sign custody papers in appropriate place? Yes No
7. Was project identifiable from custody papers? Yes No
8. Have designated person(s) initial and acknowledge receipt: MLH date: 8-13-99

B. LOGIN PHASE

Date samples were logged in: 8-13-99
By (print) M. DE WESA (sign) 

9. Describe packing: _____
10. If required, was enough ice used? Yes No
 11. Were all bottles sealed in separate plastic bags? Yes No
 12. Did all bottles arrive unbroken and in good condition? Yes No
 13. Were all bottle labels complete (ID, date, sign, preservative)? Yes No
 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
 15. Were correct containers used for the analytes? Yes No
 16. Were correct preservatives used when required? Yes No
 17. Was sufficient amount of sample sent for tests? Yes No
 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
 19. Was Client Services informed of problems? Yes No



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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

DEB* Debbie Frank

Report#: 57045
JPL



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**Laboratory
Report
#57045**

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

Samples Received
13-aug-1999 15:18:02

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-088 (990813115) Sampled on 08/13/99								
Regulated VOCs plus Lists 1&3								
08/20/99	101237		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
08/20/99	101237		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/20/99	101237		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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 #57045

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-010 (990813116)				Sampled on 08/13/99				
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
MW-993-087 (990813117)				Sampled on 08/13/99				
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/99	100452	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	91	% Rec		
MW-993-011 (990813118) Sampled on 08/13/99								
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory
 Report
 #57045

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-012 (990813119)				Sampled on 08/13/99				
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/99	100452	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	88	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Laboratory
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 #57045

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-013 (990813120) Sampled on 08/13/99								
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/99	100452	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	0.7	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.1	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/20/99	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

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Laboratory
 QC Report
 #57045

Foster Wheeler Environmental, Inc

QC Batch #100452**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0813120		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	2.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	2.0

QC Batch #100831**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	100	100.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	3.0

QC Batch #101070**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0819170		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.6	103.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	6.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.8	99.0	(75.00 - 125.00)	4.9

QC Batch #101237**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.48	87.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.75	93.8	(76.00 - 116.00)	

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

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MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.61	90.2	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.62	90.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.20	105.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.60	90.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.81	120.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.63	115.8	(70.00 - 130.00)	3.8
LCS1	1,1-Dichloropropene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.72	93.0	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.54	88.5	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.85	96.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.59	82.4	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.49	87.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.69	92.2	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	45.5	113.8	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Laboratory
 QC Report
 #57045

Foster Wheeler Environmental, Inc
 (continued)

LCS1	o-Chlorotoluene	4	4.06	<u>101.5</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	38.3	95.7	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0813119		(0.00 - 0.00)	
LCS1	Benzene	4	3.54	88.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.85	121.2	(70.00 - 130.00)	
MSD	Benzene	4	4.05	101.2	(70.00 - 130.00)	18
LCS1	Bromobenzene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.70	85.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.75	93.8	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.50	87.5	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	5.01	125.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.74	118.5	(70.00 - 130.00)	5.5
LCS1	Carbon Tetrachloride	4	3.56	89.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.17	79.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.67	91.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	3.48	87.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.83	91.5	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane (Methyl Chloride)	2	1.93	96.5	(70.00 - 130.00)	
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.41	85.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	3.37	84.2	(70.00 - 130.00)	

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.47	86.8	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.98	99.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.79	94.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.97	98.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.82	91.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.39	109.7	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.93	98.2	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.96	99.0	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.07	100.9	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.67	91.8	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.08	102.0	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.11	102.8	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.83	95.8	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.61	90.2	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.73	93.2	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	4.33	108.2	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	4.29	107.2	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	3.62	90.5	(70.00 - 130.00)
MBLK	Styrene	ND			

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Laboratory
 QC Report
 #57045

Foster Wheeler Environmental, Inc
 (continued)

LCS1	1,2-dichloroethane-d4	100	95.1	95.1	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	99.7	99.7		
MS	1,2-dichloroethane-d4	100	112	112.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	3.6
LCS1	Toluene-d8	100	94.9	94.9	(91.00 - 107.00)	
MBLK	Toluene-d8	100	101	101.0		
MS	Toluene-d8	100	111	<u>111.0</u>	(91.00 - 107.00)	
MSD	Toluene-d8	100	101	101.0	(91.00 - 107.00)	9.4
LCS1	4-Bromofluorobenzene	100	96.7	96.7	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	88.2	88.2		
MS	4-Bromofluorobenzene	100	95	95.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	88	88.0	(82.00 - 119.00)	7.7
LCS1	trans-1,2-Dichloroethylene	4	3.16	79.0	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.21	105.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.77	94.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	5.62	<u>140.5</u>	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	5.24	<u>131.0</u>	(70.00 - 130.00)	7.0
LCS1	Trichlorotrifluoroethane (Freon)	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon)	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.94	98.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	5.25	<u>131.2</u>	(70.00 - 130.00)	
MSD	Toluene	4	4.79	119.8	(70.00 - 130.00)	9.2
LCS1	Vinyl chloride (VC)	2	2.38	119.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

September 7, 1999

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

Attention: Mark Cutler

Re: Report # 57084 (MW-993-090, MW-993-045, MW-993-089,
MW-993-046, MW-993-047)
Sampled: 8/16/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 101237- 08/20/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Toluene-d8, the surrogate for the Matrix spike, is outside MWL internal control limits of 91-107. It is within QAPP specified limits of 85-115% and method acceptance limits of 80-120%. Results are acceptable for regulatory reporting.

The Matrix Spike and Spike Duplicate, MS/MSD, recoveries for Trichloroethylene recovered above MWL acceptance Limits, 70-130%. The RPD is 7.0%. None of the samples in this report group were used for the MS/MSD. The LCS and MBLK for this compound are acceptable. Results are reported without qualification. The MS recovery for Toluene is above the MWL acceptance limits of 70-130%. The RPD with the MSD is 9.2%. The LCS and MBLK are acceptable for this compound. None of the samples reported in this report group were used for the MS/MSD. Results are reported without qualification.

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-993-045, -046, -047

Chloroform was detected in MW-993-045, -046, -047

Perchlorate was detected in MW-993-046

TIC's:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849



57084

FOSTER WHEELER ENVIRONMENTAL CORPORATION CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

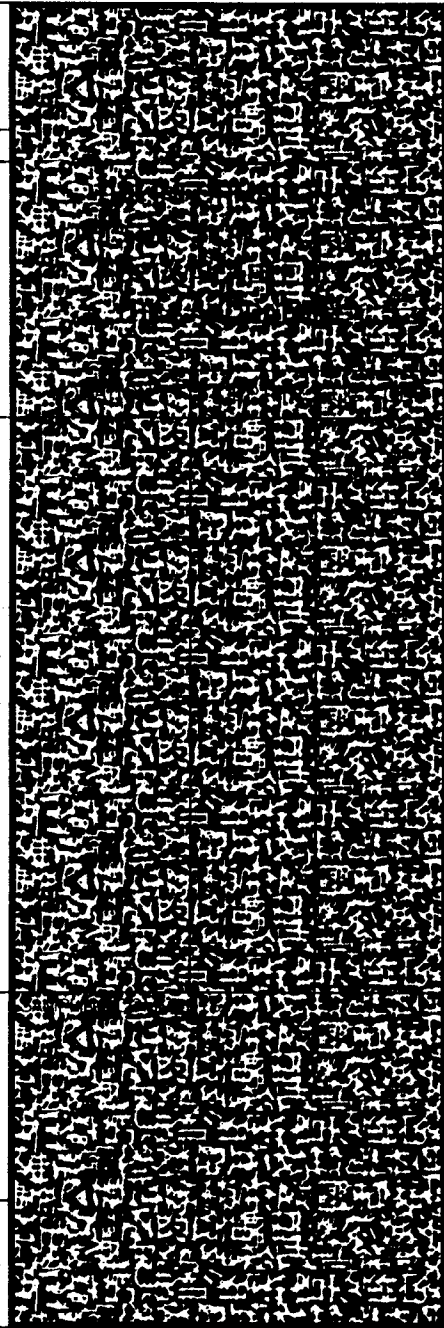
PROJECT 316	OFS NO.	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS
PROJECT ADDRESS 1000 ...			

SAMPLER (Name) T. ...	SAMPLER (Signature) T. ...	ANALYSES REQUIRED	
LABORATORY 11 ...			
REPORTS TO BE SENT TO 11 ...			

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOC (EPA)									
					WATER	SOIL	OTHER (Describe)										
1101 993-070	0725	7/1/01	7	2 x 40 gal	X			X									
1101 993-071	0725	}	5	2 x 40 gal 3 x 125 gal	X			X	X	X	X						
1101 993-072	0725		3	2 x 40 gal 1 x 125 gal				X									
1101 993-073	0725		2	2 x 40 gal	X			X									
1101 993-074	0725		2	2 x 40 gal	X			X									
1101 993-075	0725		2	2 x 40 gal	X			X									

LABORATORY INSTRUCTIONS/COMMENTS
Level IV 2/1/01

RELINQUISHED BY (Signature) T. ...	DATE 8/14/01	RECEIVED BY (Signature) T. ...	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY Foster Wheeler	TIME	COMPANY	COMPANY	TIME	COMPANY



MONTGOMERY WATSON COOLER RECEIPT FORM


PROJECT: ENSERCH

DATE RECEIVED: 8-16-99

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

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-16-99

By (print) MIKE CHIANG (sign) 

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 seals, outside of cooler?
If yes, enter the following: seal date: Att 8/16/99 seal name: 3/16/99-MLH
3. Were custody seals unbroken and intact at delivery? Yes No
4. Were custody papers sealed in bag and taped to lid? Yes No
5. Were custody papers filled out properly (ink, etc.)? Yes No
6. Did you sign custody papers in appropriate place? Yes No
7. Was project identifiable from custody papers? Yes No
8. Have designated person(s) initial and acknowledge receipt: mc date: 8-16-99

B. LOGIN PHASE

Date samples were logged in: _____

By (print) _____ (sign) _____

9. Describe packing: _____

10. If required, was enough ice used? Yes No
11. Were all bottles sealed in separate plastic bags? Yes No
12. Did all bottles arrive unbroken and in good condition? Yes No
13. Were all bottle labels complete (ID, date, sign, preservative)? Yes No
14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
15. Were correct containers used for the analytes? Yes No
16. Were correct preservatives used when required? Yes No
17. Was sufficient amount of sample sent for tests? Yes No
18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
19. Was Client Services informed of problems? Yes No



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Laboratory Report

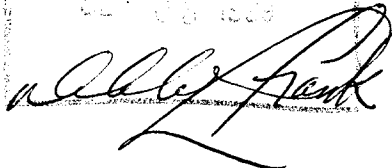
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

626 568 6329


DEB* Debbie Frank

Report#: 57084
JPL

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Laboratory
Report
#57084

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

Samples Received
16-aug-1999 15:22:15

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
				MW-993-090 (990816120)	Sampled on 08/16/99			
Regulated VOCs plus Lists 1&3								
08/20/99	101237		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
08/20/99	101237		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/20/99	101237		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/20/99	101237		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #57084

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(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	101	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		



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**Laboratory
 Report
 #57084**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-045 (990816121)				Sampled on 08/16/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	1.9	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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 #57084

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(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	99	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Laboratory
 Report
 #57084

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-089 (990816122)				Sampled on 08/16/99				
	08/26/99	101069	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/16/99	100523	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/B524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	91	% Rec		

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Laboratory
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 #57084

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-046 (990816123)				Sampled on 08/16/99				
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	9.2	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	3.7	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.1	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
 Report
 #57084

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(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	106	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Laboratory
 Report
 #57084

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-047 (990816124)				Sampled on 08/16/99				
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/19/99	08/24/99	100831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/16/99	100523	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/20/99	101237	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/20/99	101237	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/21/99	101237	(ML/EPA 524.2)	Carbon Tetrachloride	19	ug/l	1.0	2
	08/20/99	101237	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/20/99	101237	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.3	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/20/99	101237	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	88	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Laboratory
 QC Report
 #57084

Foster Wheeler Environmental, Inc

QC Batch #100523**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0816124		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	1.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.047	94.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.048	96.0	(80.00 - 120.00)	2.1

QC Batch #100831**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0802113		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	100	100.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	100	100.0	(77.00 - 119.00)	3.0

QC Batch #101069**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0807013		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	22	<u>110.0</u>	(90.00 - 110.00)	9.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	23.8	119.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	23.7	118.5	(75.00 - 125.00)	0.42

QC Batch #101070**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0819170		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.6	103.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	6.0

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.8	99.0	(75.00 - 125.00)	4.9

QC Batch #101237**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	3.48	87.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.75	93.8	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.61	90.2	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.62	90.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.20	105.0	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.60	90.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.81	120.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.63	115.8	(70.00 - 130.00)	3.8
LCS1	1,1-Dichloropropene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.72	93.0	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.54	88.5	(75.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.85	96.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.86	96.5	(70.00 - 130.00)	

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 (continued)

MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.59	82.4	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	4	3.49	87.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.69	92.2	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	45.5	113.8	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.06	<u>101.5</u>	(0.00 - 0.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	38.3	95.7	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0813119		(0.00 - 0.00)	
LCS1	Benzene	4	3.54	88.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.85	121.2	(70.00 - 130.00)	
MSD	Benzene	4	4.05	101.2	(70.00 - 130.00)	18
LCS1	Bromobenzene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	1.70	85.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.75	93.8	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.50	87.5	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	5.01	125.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.74	118.5	(70.00 - 130.00)	5.5
LCS1	Carbon Tetrachloride	4	3.56	89.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.17	79.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				

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QC Report
#57084

Foster Wheeler Environmental, Inc
(continued)

LCS1	Chloroform (Trichloromethane)	4	3.67	91.8	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
LCS1	Bromochloromethane	4	3.48	87.0	(70.00 - 130.00)
MBLK	Bromochloromethane	ND			
LCS1	Chloroethane	2	1.83	91.5	(70.00 - 130.00)
MBLK	Chloroethane	ND			
LCS1	Chloromethane (Methyl Chloride)	2	1.93	96.5	(70.00 - 130.00)
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.41	85.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
LCS1	Dibromomethane	4	3.37	84.2	(70.00 - 130.00)
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.47	86.8	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.98	99.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.79	94.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.97	98.5	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.82	91.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.39	109.7	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	3.93	98.2	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.96	99.0	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.07	100.9	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	3.67	91.8	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.08	102.0	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.11	102.8	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.83	95.8	(72.00 - 118.00)

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

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Laboratory
 QC Report
 #57084

Foster Wheeler Environmental, Inc
 (continued)

MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.61	90.2	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.73	93.2	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.29	107.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	95.1	95.1	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	99.7	99.7		
MS	1,2-dichloroethane-d4	100	112	112.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	108	108.0	(80.00 - 127.00)	3.6
LCS1	Toluene-d8	100	94.9	94.9	(91.00 - 107.00)	
MBLK	Toluene-d8	100	101	101.0		
MS	Toluene-d8	100	111	<u>111.0</u>	(91.00 - 107.00)	
MSD	Toluene-d8	100	101	101.0	(91.00 - 107.00)	9.4
LCS1	4-Bromofluorobenzene	100	96.7	96.7	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	88.2	88.2		
MS	4-Bromofluorobenzene	100	95	95.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	88	88.0	(82.00 - 119.00)	7.7
LCS1	trans-1,2-Dichloroethylene	4	3.16	79.0	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.21	105.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.77	94.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	5.62	<u>140.5</u>	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	5.24	<u>131.0</u>	(70.00 - 130.00)	7.0
LCS1	Trichlorotrifluoroethane (Freon	2	1.99	99.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.94	98.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	5.25	<u>131.2</u>	(70.00 - 130.00)	

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Laboratory
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#57084

Foster Wheeler Environmental, Inc
(continued)

MSD	Toluene	4	4.79	119.8	(70.00 - 130.00)	9.2
LCS1	Vinyl chloride (VC)	2	2.38	119.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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

**MONTGOMERY WATSON LABORATORIES***Quality Environmental Analysis*

A division of Montgomery Watson Americas, Inc.

October 13, 1999

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

Attention: Mark Cutler

Re: Report # 57222 (MW-993-092, MW-993-091, MW-993-001,
MW-993-002, MW-993-003, MW-993-004)

Sampled: 8/19/99

Dear Mark,

Enclosed please find revised report for the recent JPL project. MW-993-003 results for Perchlorate are revised from ND to 700 ug/L. This revision is based on review of the analytical runs for this sample. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

(524) QC batch 101239- 08/21/99, 101767-8/25/99: The LCS limits for o-chlorotoluene have not been input into our LIMS system yet. The limits are 70-130. This analyte is within method acceptance limits, though it is flagged as being outside of the LIMS limits. Results are acceptable for regulatory reporting.

Toluene-d8, the surrogate for the Matrix spike, is outside MWL internal control limits of 91-107. It is within QAPP specified limits of 70-130%. Results are acceptable for regulatory reporting.

101239-8/21/99: The Matrix Spike and Spike Duplicate, MS/MSD, recoveries for Trichloroethylene recovered above MWL acceptance Limits, 70-130%. The RPD is 7.0%. None of the samples in this report group were used for the MS/MSD. The LCS and MBLK for this compound are acceptable. Results are reported without qualification. The MS recovery for Toluene is above the MWL acceptance limits of 70-130%. The RPD with the MSD is 9.2%. The LCS and MBLK are acceptable for this compound. None of the samples reported in this report group were used for the MS/MSD. Results are reported without qualification.

101767-8/25/99 The MS Surrogate, Toluene-d8, recovered above MWL internal control limits of 91-107. The recoveries are within 70-130%. Results are reported without qualification.

Samples requiring dilution (with increased MRL's):

MW-993-003 was diluted for Carbon Tetrachloride, Perchlorate.

Method blanks with compounds detected:

None

Laboratory
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Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203**Northern California Service Center**
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760**Southern California Service Center**
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

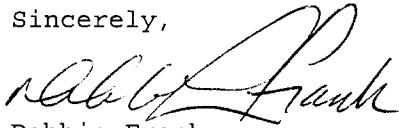
Comments:

1,1-Dichloroethylene was detected in MW-993-003
Carbon Tetrachloride was detected in MW-993-003, -004
Chloroform was detected in MW-993-003, -004
Tetrachloroethylene was detected in MW-993-003
Trichloroethylene was detected in MW-993-003, -004
Perchlorate was detected in MW-993-004, -003

TIC's:

None

Sincerely,



Debbie Frank
Project Manager

cc: Judy Novelly (JPL)



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL OFS NO: 1572.0284

PROJECT ADDRESS: 4800 Oak Grove Dr. Pasadena, CA

HAZARD IDENTIFICATION: Non Hazard Reactive Flammable Toxic Skin Irritant Infectious

TIME REQUIRED: NORMAL DAYS RUSH DAYS

SAMPLER (Name): Matthew L. Hunt SAMPLER (Signature): Matthew L. Hunt

LABORATORY: Montgomery Watson Labs

REPORTS TO BE SENT TO: Mr. Mark Cutler

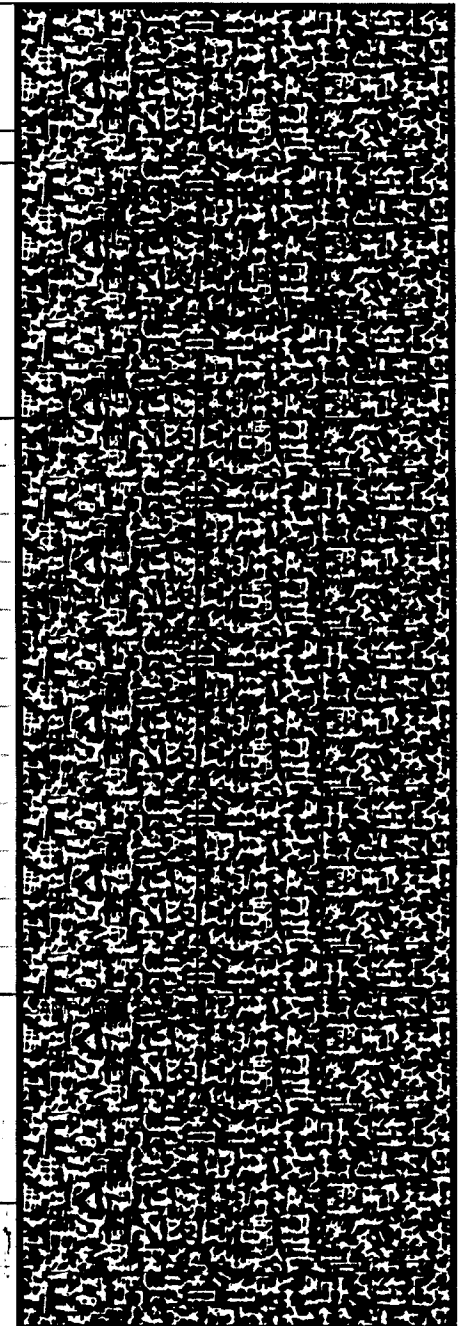
ANALYSES REQUIRED: VOCs (EPA 524.2), Cr Total, Cr Gt, ClO4, MS for VOCs, MSD for VOCs, MS/MSD for Cr Total, QC for Cr Gt

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (EPA 524.2)	Cr Total	Cr Gt	ClO4	MS for VOCs	MSD for VOCs	MS/MSD for Cr Total	QC for Cr Gt
					WATER	SOIL	OTHER (Describe)								
MW-993-092	1000	8/19/99	2	2x40ml	X			X							
MW-993-091	1015	}	5	2x40ml 3x125ml	X			X	X	X					
MW-993-001	0950		2	2x125ml	X				X	X					X
MW-993-002	1105		5	2x40ml, 1x250ml 2x125ml	Y			X	Y	X	Y			X	
MW-993-002AK	1105		2	2x40ml	X							X			
MW-993-002149	1105		2	2x40ml	X								X		
MW-993-003	1200		5	2x40ml 3x125ml	Y			X	X	X	X				
MW-993-004	1245		5	2x40ml 3x125ml	Y			X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS: Level IV QA/QC

RELINQUISHED BY (Signature): Matthew L. Hunt DATE: 8/19/99 TIME: 15:45

RECEIVED BY (Signature): [Signature] COMPANY: MWL



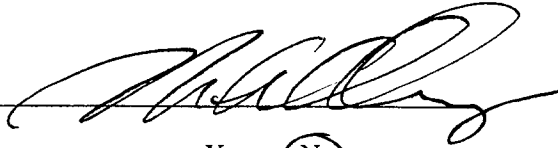
MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH

DATE RECEIVED: 8-19-99

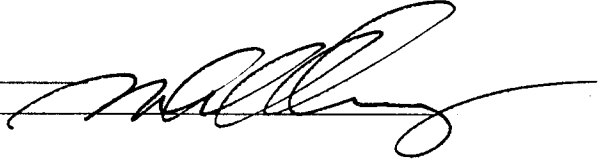
Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION

Date Cooler opened: 8-19-99
By (print) Mike Chiuang (sign) 

- 1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: _____
- 2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 seals, coolers lid
If yes, enter the following: seal date: 8-19-99 seal name: MLH
- 3. Were custody seals unbroken and intact at delivery? Yes No
- 4. Were custody papers sealed in bag and taped to lid? Yes No
- 5. Were custody papers filled out properly (ink, etc.)? Yes No
- 6. Did you sign custody papers in appropriate place? Yes No
- 7. Was project identifiable from custody papers? Yes No
- 8. Have designated person(s) initial and acknowledge receipt: me date: 8-19-99

B. LOGIN PHASE

Date samples were logged in: 8-19-99
By (print) Mike Chiuang (sign) 

- 9. Describe packing: _____
- 10. If required, was enough ice used? Yes No
- 11. Were all bottles sealed in separate plastic bags? Yes No
- 12. Did all bottles arrive unbroken and in good condition? Yes No
- 13. Were all bottle labels complete (ID, date, sign, preservative)? Yes No
- 14. Did all bottle labels agree with custody papers? If no, list on back. Yes No
- 15. Were correct containers used for the analytes? Yes No
- 16. Were correct preservatives used when required? Yes No
- 17. Was sufficient amount of sample sent for tests? Yes No
- 18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No
- 19. Was Client Services informed of problems? Yes No



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Laboratory Report

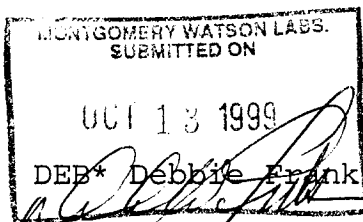
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



Report#: 57222
JPL

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Laboratory
 Report
 #57222

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

Samples Received
 19-aug-1999 16:54:30

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-092 (990819168)				Sampled on 08/19/99				
Regulated VOCs plus Lists 1&3								
08/21/99	101239		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
08/21/99	101239		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
08/21/99	101239		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
08/21/99	101239		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
 Report
 #57222

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/21/99	101239	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/21/99	101239	(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	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		



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**Laboratory
 Report
 #57222**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-091 (990819170)		Sampled on 08/19/99						
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
09/02/99	09/03/99	101362	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/20/99	100696	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/25/99	101767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/25/99	101767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/25/99	101767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/25/99	101767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
08/25/99	101767		(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
08/25/99	101767		(ML/ES24.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
08/25/99	101767		(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

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Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-993-001 (990819172) Sampled on 08/19/99								
09/02/99	09/03/99	101362	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/20/99	100696	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
MW-993-002 (990819173) Sampled on 08/19/99								
	08/26/99	101070	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
09/02/99	09/03/99	101362	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/20/99	100696	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
08/21/99	101239	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
08/21/99	101239	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
08/21/99	101239	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
08/21/99	101239	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/21/99	101239	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		
MW-993-003 (990819174) Sampled on 08/19/99								
	08/30/99	101401	(MOD/EPA 300)	Perchlorate	700	ug/l	80	20
09/02/99	09/03/99	101362	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/20/99	100696	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	08/21/99	101239	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,1-Dichloroethylene	1.4	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/21/99	101239	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/21/99	101239	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	08/25/99	101239	(ML/EPA 524.2)	Carbon Tetrachloride	35	ug/l	1.0	2
	08/21/99	101239	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloroform (Trichloromethane)	7.5	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.9	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.6	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/21/99	101239	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/21/99	101239	(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	102	% Rec		