Previous

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45809
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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

NUMBE 2000

45809

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE PASADENA

SAMPLER (Name): T BLANEY

SAMPLER (Signature):

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL Cr, As, Pb, METALS (Ba/Ni/Zn)	ANIONS + TDS	Cr 6+	ClO_4^-	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr 6+
MW-983-106	0745	8/5/98	2	2 x 40ml	✓		980805126	X								
MW-983-066	0910	8/5/98	6	2x40ml, 2x500ml 2x125ml	✓			X	X	X	X	X				X
MW-983-066MS	0910	8/5/98	2	2x40ml	✓								X			
MW-983-066MSD	0910	8/5/98	2	2x40ml	✓									X		
MW-983-062	1025	8/5/98	6	2x40ml, 1x250ml, 1x500ml, 1x125ml	✓			✓	✓	✓	✓	✓				
MW-983-061	1030	8/5/98	5	2x40ml, 1x250ml 2x125ml	✓			✓	✓		X	✓				
MW-983-067	1110	8/5/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	✓			X	X	✓	✓	X		1x		
MW-983-064	1405	8/5/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	✓			X	✓	✓	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY: FWEC	TIME: 1510	COMPANY: MW	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Emsearch Date Received: 08/05/98

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 8/5/98
by (print) Vijay Mepani (sign) Vijay Mepani

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

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 on top
   If Yes, enter the following: seal date: 8/5/98, seal name: TPB

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

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

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

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

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: VKM (date) 8/5/98

B. LOG-IN PHASE: Date samples were logged-in: 8-5-98 by:
(print) M. de Luna (sign) _____

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? **Yes** No

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

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

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR45809

		Result	MDL	UNITS
Analyzed	980805126 MW-983-106			
08/11/98	Dichloromethane	5.4	.500	UGL
Analyzed	980805127 MW-983-066			
08/11/98	1,1-Dichloroethane	0.8	.500	UGL
08/11/98	Dichloromethane	7.6	.500	UGL
08/11/98	Tetrachloroethylene (PCE)	2.5	.500	UGL
08/11/98	Trichloroethylene (TCE)	0.6	.500	UGL
08/09/98	Alkalinity	200	2.000	MGL
08/12/98	Anion Sum	10.4	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated	244	.001	MGL
08/20/98	Calcium, Total, ICAP	130	1.000	MGL
08/09/98	Carbonate as CO3, Calculated	0.126	.001	MGL
08/23/98	Cation Sum	11.6	.001	MEQL
08/07/98	Chloride	100	2.000	MGL
09/02/98	Chromium, Total, ICAP/MS	13	10.000	UGL
09/02/98	Iron, Total, ICAP/MS	120	******	UGL
08/07/98	Lab pH	6.9	.001	UNIT
08/20/98	Magnesium, Total, ICAP	43	.100	MGL
08/07/98	Nitrate-N by IC	9.7	.200	MGL
08/11/98	Perchlorate	4.2	4.000	UGL
08/20/98	Potassium, Total, ICAP	3.6	1.000	MGL
08/20/98	Sodium, Total, ICAP	33	1.000	MGL
08/11/98	Specific Conductance	1040	4.000	UMHO
08/07/98	Sulfate	140	4.000	MGL
08/10/98	Total Dissolved Solid (TDS)	680	10.000	MGL
Analyzed	980805128 MW-983-062			
08/11/98	Dichloromethane	7.8	.500	UGL
08/09/98	Alkalinity	160	2.000	MGL
08/12/98	Anion Sum	4.46	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated	195	.001	MGL
08/20/98	Calcium, Total, ICAP	57	1.000	MGL
08/09/98	Carbonate as CO3, Calculated	0.101	.001	MGL
08/23/98	Cation Sum	5.19	.001	MEQL
08/07/98	Chloride	8.7	1.000	MGL
08/07/98	Lab pH	6.9	.001	UNIT
08/20/98	Magnesium, Total, ICAP	19	.100	MGL
08/07/98	Nitrate-N by IC	4.6	.100	MGL
08/20/98	Potassium, Total, ICAP	3.3	1.000	MGL
08/20/98	Sodium, Total, ICAP	16	1.000	MGL
08/11/98	Specific Conductance	465	4.000	UMHO
08/07/98	Sulfate	33	2.000	MGL
08/10/98	Total Dissolved Solid (TDS)	280	10.000	MGL
Analyzed	980805129 MW-983-061			
08/11/98	Dichloromethane	8.2	.500	UGL
Analyzed	980805130 MW-983-067			
08/11/98	Dichloromethane	6.5	.500	UGL
08/09/98	Alkalinity	120	2.000	MGL

08/12/98	Anion Sum	2.88	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated	146	.001	MGL
08/20/98	Calcium, Total, ICAP	34	1.000	MGL
08/09/98	Carbonate as CO3, Calculated	0.075	.001	MGL
08/23/98	Cation Sum	3.25	.001	MEQL
08/07/98	Chloride	4.1	1.000	MGL
09/02/98	Iron, Total, ICAP/MS	730	******	UGL
08/07/98	Lab pH	6.9	.001	UNIT
08/20/98	Magnesium, Total, ICAP	11	.100	MGL
08/07/98	Nitrate-N by IC	0.37	.100	MGL
08/20/98	Potassium, Total, ICAP	3.1	1.000	MGL
08/20/98	Sodium, Total, ICAP	13	1.000	MGL
08/11/98	Specific Conductance	295	4.000	UMHO
08/07/98	Sulfate	16	2.000	MGL
08/10/98	Total Dissolved Solid (TDS)	180	10.000	MGL

Analyzed 980805131 MW-983-064

08/11/98	Dichloromethane	6.6	.500	UGL
08/09/98	Alkalinity	145	2.000	MGL
08/12/98	Anion Sum	3.73	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated	177	.001	MGL
08/20/98	Calcium, Total, ICAP	45	1.000	MGL
08/09/98	Carbonate as CO3, Calculated	0.145	.001	MGL
08/23/98	Cation Sum	4.26	.001	MEQL
08/07/98	Chloride	6.4	1.000	MGL
08/07/98	Lab pH	7.1	.001	UNIT
08/20/98	Magnesium, Total, ICAP	15	.100	MGL
08/07/98	Nitrate-N by IC	0.87	.100	MGL
08/20/98	Potassium, Total, ICAP	3.0	1.000	MGL
08/20/98	Sodium, Total, ICAP	16	1.000	MGL
08/11/98	Specific Conductance	375	4.000	UMHO
08/07/98	Sulfate	28	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)	220	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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

Report
Comments
#45809

Group Comments

(524.2) Methylene Chloride detected in the samples are due to laboratory contamination. See QIR-MS-98-025. GG 08/17/98.

QUALITY INVESTIGATION REPORT

QIR No. MS-98-027

Analysis Date: 8/17/98

Analysis: 524 (@ EBASVOA)

Extraction Date: —

Matrix: 1

Analyst: COL

Instrument ID: GCMSH

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
980813094	MW-983-114	Foster Wheeler	980813098	MW-983-008	Foster Wheeler
095	-115	↓	099	-009	↓
096	-006		100	-010	
097	-007				

Brief Description: (include reason for non-compliance)

Methylene chloride detected in all samples. LRB loaded at the same time as these samples (0817VH35) has 1.7 ppb of methylene chloride. (Suspect lab. contamination (0817VH18 is an acceptable ~~M.B.~~ COL LRB for this test)

Action Taken: Informed P.M. (Debbie Frank), who advised not to rerun; fill out QIR and annotate report. Lab. Facilities is investigating lab. contamination issue.

Impact on Data Quality:

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

Other:

Annotation:

Client Contact: See QIR re report w/ annotation per Mark Lowe / Tom Blaney FWEN

msg for Mark Cutler 8/25

Extraction:	—	Date:	—
Analyst:	Cecilia Lei	Date:	8-18-98
Group Leader:	[signature]	Date:	8-21-98
QA Coordinator:	[signature]	Date:	8-25-98
Project Manager:	[signature]	Date:	8/25/98

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QUALITY INVESTIGATION REPORT

QIR No. MS-98-025

Analysis Date: ~~8/12~~ 8/11/98
Analysis: 524
Extraction Date: —
Matrix: 1
Analyst: COL
Instrument ID: GCMSH

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
980805126	MW-983-106	Foster Wheeler	980805130	MW-983-067	Foster Wheeler
127	-066	↓	131	-069	↓
128	-062		127	MW-983-066 MS	
129	-061		127	-066 MSD	

Brief Description: (include reason for non-compliance)

Methylene chloride detected in all samples and LRB (file #9).
Suspect laboratory contamination.

Action Taken: Informed P.M (Debbie Frank) of problem. Debbie advised not to rerun because methylene chloride is not an analyte of interest to Foster Wheeler. Document problem on a QIR. Facilities Dept is investigating the cause of contamination.

Impact on Data Quality:

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

Other:

Annotation: Mark Cutler on Vacation 8/10-24 [illegible] w/ [illegible]

Client Contact: Discussed Laboratory Contamination w/ Mark Lossi 8/3 he indicated it was not an analyte of concern if it is demonstrated to be Lab Contamination. Investigate and correct problem as quickly as possible but ok to Report w/ annotation Des 8/17/98 [illegible] M. [illegible] 8/1

Extraction: [signature] Date:
Analyst: [signature] Date: 8/12/98
Group Leader: [signature] Date: 8/12/98
QA Coordinator: [signature] Date: 08/17/98
Project Manager: [signature] Date: 8/17/98

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

SEP 1 8 [illegible]

DEB* Debbie Frank

Report#: 45809
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#45809

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

Samples Received
05-aug-1998 15:41:41

MW-983-106 (980805126) Sampled on 08/05/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#45809

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichloromethane	5.4	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/98	82352	(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	100	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-066 (980805127) Sampled on 08/05/98								
	08/09/98	82750	(ML/S2320B)	Alkalinity	200	mg/l	2.0	1
	08/12/98		(ML/SM1040)	Anion Sum	10.4	meq/l	0.0010	1
08/07/98	09/15/98	82334	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/20/98	82723	(EPA/ML 200.7)	Calcium, Total, ICAP	130	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	11.6	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	100	mg/l	2.0	2
	08/11/98	82341	(MOD/EPA 300)	Perchlorate	4.2	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.126	mg/l	0.0010	1
08/07/98	09/02/98	83409	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	13	ug/l	10	1
	08/05/98	81852	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82192	(ML/S2510B)	Specific Conductance	1040	umho/cm	4.0	1
08/07/98	09/02/98	83419	(EPA/ML 200.8)	Iron, Total, ICAP/MS	120	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	244	mg/l	0.0010	1
08/11/98	08/20/98	82725	(ML/EPA 200.7)	Potassium, Total, ICAP	3.6	mg/l	1.0	1
08/11/98	08/20/98	82727	(ML/EPA 200.7)	Magnesium, Total, ICAP	43	mg/l	0.10	1
08/11/98	08/20/98	82729	(ML/EPA 200.7)	Sodium, Total, ICAP	33	mg/l	1.0	1
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	9.7	mg/l	0.20	2
08/07/98	09/10/98	83811	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	6.9	Units	0.0010	1
	08/07/98	82124	(ML/EPA 300.0)	Sulfate	140	mg/l	4.0	2
	08/10/98	82354	(ML/S2540C)	Total Dissolved Solid (TDS)	680	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/11/98	82352	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethane	0.8	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichloromethane	7.6	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.5	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MW-983-062 (980805128) Sampled on 08/05/98

	08/09/98	82750	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	08/12/98		(ML/SM1040)	Anion Sum	4.46	meq/l	0.0010	1
08/07/98	09/15/98	82334	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/20/98	82723	(EPA/ML 200.7)	Calcium, Total, ICAP	57	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	5.19	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	8.7	mg/l	1.0	1
	08/11/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.101	mg/l	0.0010	1
08/07/98	09/02/98	83409	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/98	81852	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	465	umho/cm	4.0	1
08/07/98	09/02/98	83419	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
08/11/98	08/20/98	82725	(ML/EPA 200.7)	Potassium, Total, ICAP	3.3	mg/l	1.0	1
08/11/98	08/20/98	82727	(ML/EPA 200.7)	Magnesium, Total, ICAP	19	mg/l	0.10	1
08/11/98	08/20/98	82729	(ML/EPA 200.7)	Sodium, Total, ICAP	16	mg/l	1.0	1
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	4.6	mg/l	0.10	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
08/07/98	09/10/98	83811	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	6.9	Units	0.0010	1
	08/07/98	82124	(ML/EPA 300.0)	Sulfate	33	mg/l	2.0	1
	08/10/98	82354	(ML/S2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/11/98	82352	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichloromethane	7.8	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/98	82352	(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	102	% Rec		
			(Surrogate)	Toluene-d8	107	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-061 (980805129) Sampled on 08/05/98								
08/07/98	09/15/98	82334	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	08/11/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/07/98	09/02/98	83409	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/98	81852	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/07/98	09/10/98	83811	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	08/11/98	82352	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichloromethane	8.2	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	102	% Rec		
MW-983-067 (980805130) Sampled on 08/05/98								
	08/09/98	82750	(ML/S2320B)	Alkalinity	120	mg/l	2.0	1
	08/12/98		(ML/SM1040)	Anion Sum	2.88	meq/l	0.0010	1
08/07/98	09/15/98	82334	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/20/98	82723	(EPA/ML 200.7)	Calcium, Total, ICAP	34	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	3.25	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	4.1	mg/l	1.0	1
	08/11/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.075	mg/l	0.0010	1
08/07/98	09/02/98	83409	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/98	81852	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	295	umho/cm	4.0	1
08/07/98	09/02/98	83419	(EPA/ML 200.8)	Iron, Total, ICAP/MS	730	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	146	mg/l	0.0010	1
08/11/98	08/20/98	82725	(ML/EPA 200.7)	Potassium, Total, ICAP	3.1	mg/l	1.0	1
08/11/98	08/20/98	82727	(ML/EPA 200.7)	Magnesium, Total, ICAP	11	mg/l	0.10	1
08/11/98	08/20/98	82729	(ML/EPA 200.7)	Sodium, Total, ICAP	13	mg/l	1.0	1
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	0.37	mg/l	0.10	1
08/07/98	09/10/98	83811	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	6.9	Units	0.0010	1
	08/07/98	82124	(ML/EPA 300.0)	Sulfate	16	mg/l	2.0	1
	08/10/98	82354	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/11/98	82352	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichloromethane	6.5	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MW-983-064 (980805131) Sampled on 08/05/98

	08/09/98	82750	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	08/12/98		(ML/SM1040)	Anion Sum	3.73	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/20/98	82723	(EPA/ML 200.7)	Calcium, Total, ICAP	45	mg/l	1.0	1
	08/23/98		(ML/SM1040)	Cation Sum	4.26	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	6.4	mg/l	1.0	1
	08/18/98	82652	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.145	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/05/98	81852	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	375	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	177	mg/l	0.0010	1
08/11/98	08/20/98	82725	(ML/EPA 200.7)	Potassium, Total, ICAP	3.0	mg/l	1.0	1
08/11/98	08/20/98	82727	(ML/EPA 200.7)	Magnesium, Total, ICAP	15	mg/l	0.10	1
08/11/98	08/20/98	82729	(ML/EPA 200.7)	Sodium, Total, ICAP	16	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	0.87	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	7.1	Units	0.0010	1
	08/07/98	82124	(ML/EPA 300.0)	Sulfate	28	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/11/98	82352	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/11/98	82352	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/11/98	82352	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichloromethane	6.6	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/11/98	82352	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	91	% Rec		
			(Surrogate)	4-Bromofluorobenzene	106	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory
QC Report
#45809

Foster Wheeler Environmental, Inc

QC Batch #81852 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	80805127		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(80.00 - 120.00)	1.2

QC Batch #82008 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0806088		(0.00 - 0.00)	

QC Batch #82124 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Sulfate	50	54.2	108.4	(90.00 - 110.00)	
LCS2	Sulfate	50	50.4	100.8	(90.00 - 110.00)	7.3
MBLK	Sulfate	ND				
MS	Sulfate	50	56.3	112.6	(80.00 - 120.00)	
MSD	Sulfate	50	56.3	112.6	(80.00 - 120.00)	0.00

QC Batch #82171 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Chloride	25	27	108.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	3.8
MBLK	Chloride	ND				
MS	Chloride	25	28	112.0	(80.00 - 120.00)	
MSD	Chloride	25	28	112.0	(80.00 - 120.00)	0.00

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

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Foster Wheeler Environmental, Inc
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QC Batch #82174 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.75	110.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	5.6
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.8	112.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.8	112.0	(80.00 - 120.00)	0.00

QC Batch #82192 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0805127		(0.00 - 0.00)	

QC Batch #82193 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	

QC Batch #82334 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0190	95.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0186	93.0	(85.00 - 115.00)	2.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0255	127.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0233	116.5	(85.00 - 115.00)	9.0

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QC Batch #82341 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0727128		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	3.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.1	100.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.5	107.5	(75.00 - 125.00)	6.7

QC Batch #82352 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.95	99.4	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.39	104.9	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.27	90.9	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.48	81.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	6.27	78.4	(70.00 - 130.00)	3.3
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.46	105.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.90	98.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				

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LCS1	1,2-Dichloropropane	8	7.81	97.6	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.30	103.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.24	103.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Benzene	8	8.33	104.1	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.72	109.0	(70.00 - 130.00)	2.2
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.12	101.5	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.42	105.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.78	109.7	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.15	114.4	(70.00 - 130.00)	4.1
LCS1	Carbon Tetrachloride	8	7.85	98.1	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.98	99.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.72	96.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	8.17	102.1	(70.00 - 130.00)	

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MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	8.03	100.4	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.37	104.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.86	96.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	17.1	106.9	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.47	105.9	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.78	97.2	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.96	99.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.49	106.1	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	87	87.0		
MS	1,2-dichloroethane-d4	100	98	98.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	8.8
LCS1	Toluene-d8	100	100	100.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	103	103.0		
MS	Toluene-d8	100	98	99.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	86	86.0	(80.00 - 120.00)	13

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LCS1	4-Bromofluorobenzene	100	106	106.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	111	111.0		
MS	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	99	99.0	(80.00 - 120.00)	4.0
LCS1	trans-1,2-Dichloroethylene	8	7.71	96.4	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.23	102.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.42	105.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.93	111.6	(70.00 - 130.00)	5.9
LCS1	Trichlorotrifluoroethane(Freon	4	2.99	74.8	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.31	103.9	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	9.02	112.8	(70.00 - 130.00)	
MSD	Toluene	8	8.10	101.2	(70.00 - 130.00)	11
LCS1	Vinyl chloride (VC)	4	4.51	112.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82354 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0804036		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	678	96.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #82517 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	674	96.3	(85.00 - 115.00)	

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MBLK	Total Dissolved Solid (TDS)	ND

QC Batch #82652 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0811043		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.3	91.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.3	101.5	(90.00 - 110.00)	10
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.3	86.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.3	91.5	(75.00 - 125.00)	5.6

QC Batch #82723 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805128		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	54.9	109.8	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	55.3	110.6	(90.00 - 110.00)	0.73
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	54.4	108.8	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	53.7	107.4	(80.00 - 120.00)	1.3

QC Batch #82725 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805128		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	21.3	106.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.5	107.5	(80.00 - 110.00)	0.93
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.7	108.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	21.6	108.0	(80.00 - 120.00)	0.46

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #82727 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805128		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.5	107.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.7	108.5	(85.00 - 115.00)	0.93
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.1	105.5	(70.00 - 130.00)	1.4

QC Batch #82729 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805128		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.3	102.6	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	51.7	103.4	(80.00 - 120.00)	0.78
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	52.0	104.0	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	51.5	103.0	(80.00 - 120.00)	0.97

QC Batch #82750 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0804161		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.7	103.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	101	105.0	(90.00 - 110.00)	1.3
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.6	94.2	(80.00 - 120.00)	
MSD	Alkalinity	96.2	88.5	92.0	(80.00 - 120.00)	2.3

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

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
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Foster Wheeler Environmental, Inc
(continued)

QC Batch #82801 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	1.5
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	4.7

QC Batch #83409 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	93.5	94.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98.3	98.0	(85.00 - 115.00)	5.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	96.2	96.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99.4	99.0	(70.00 - 130.00)	3.3

QC Batch #83410 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	94.2	94.2	(85.00 - 115.00)	1.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	97.1	97.1	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	89.6	89.6	(70.00 - 130.00)	8.0

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #83419 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	507	101.4	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	545	109.0	(85.00 - 115.00)	7.2
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	509	101.8	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	509	101.8	(70.00 - 130.00)	0.00

QC Batch #83421 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	515	103.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	1.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	517	103.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	510	102.0	(70.00 - 130.00)	1.4

QC Batch #83811 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	22.0	110.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.5	107.5	(85.00 - 115.00)	2.3
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.3	96.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.7	103.5	(70.00 - 130.00)	7.0

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #83813 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.1	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.3	106.5	(70.00 - 130.00)	5.8

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

MONTGOMERY WATSON LABORATORIES

September 20, 1998

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

Attention: Mark Cutler

Re: Report # 45858 (MW-983-107, -063, -079, -042)

Dear Mark,

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

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used for MS/MSD are 70-130%. All data is acceptable.
(Ca-FL) The Limits for LCS are incorrectly listed in the QC report as 90-110%. The actual limits used for LCS are 85-115%. All data is acceptable.

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

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-063, -079, -042
Chromium was detected in sample ID: MW-983-079
Lead was detected in sample ID: MW-983-079

TICS:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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

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

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45858
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 08/06/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled					Matrix	Sample Date
980806085	MW-983-107						Water	08/06/98
		@EBASVOA						
980806086	MW-983-063						Water	08/06/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS		
		CATION1	ANION1	PH	EC	HCO3	CO3	
		ALK	NO3	SO4	CL	FE-MS	K	
		NA	MG	CA	CR-VI	CLO4		
980806087	MW-983-079						Water	08/06/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-MS	AS-GF	CR-MS		
980806088	MW-983-042						Water	08/06/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-MS	AS-GF	CR-MS		

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45858
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER [illegible]

45858

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA

SAMPLER (Name): T BLANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (5242)	TOTAL Cr, As, Pb METALS (6010, 7000)	ANIONS + TDS	Cr, or	ClO_4^-	QC FOR Cr, or				
MW-983-107	0815	8/6/98	2	2x40ml	X			X									
MW-983-063	0910	8/6/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X					
MW-983-079	1040	8/6/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X					
MW-983-042	1345	8/6/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/6/98	[signature]			
COMPANY: FWENC	TIME	COMPANY	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Ensenada Date Received: 8/6/98

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 8/6/98
by (print) [illegible] (sign) [illegible]

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

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2
   If Yes, enter the following: seal date: 8/6/98, seal name: TPB

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

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

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

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

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: VKM (date) 8/6/98

B. LOG-IN PHASE: Date samples were logged-in: 8-6-98 by:
(print) M. DE WESA (sign) [illegible]

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? **Yes** No

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

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

19. Was Client Services informed of problems? **Yes** No

			Result	MDL	UNITS
Analyzed	980806085	MW-983-107			
Analyzed	980806086	MW-983-063			
08/09/98	Alkalinity		160	2.000	MGL
08/18/98	Anion Sum		3.96	.001	MEQ
08/09/98	Bicarbonate as HCO3,calculated		195	.001	MGL
08/27/98	Calcium, Total, ICAP		46	1.000	MGL
08/09/98	Carbonate as CO3, Calculated		0.160	.001	MGL
08/27/98	Cation Sum		4.41	.001	MEQ
08/07/98	Chloride		4.7	1.000	MGL
09/02/98	Iron, Total, ICAP/MS		160	******	UGL
08/07/98	Lab pH		7.1	.001	UNI
08/27/98	Magnesium, Total, ICAP		14	.100	MGL
08/07/98	Nitrate-N by IC		2.7	.100	MGL
08/27/98	Potassium, Total, ICAP		3.4	1.000	MGL
08/27/98	Sodium, Total, ICAP		20	1.000	MGL
08/11/98	Specific Conductance		415	4.000	UMH
08/07/98	Sulfate		21	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)		240	10.000	MGL
Analyzed	980806087	MW-983-079			
08/09/98	Alkalinity		200	2.000	MGL
08/18/98	Anion Sum		5.50	.001	MEQ
08/09/98	Bicarbonate as HCO3,calculated		244	.001	MGL
08/27/98	Calcium, Total, ICAP		60	1.000	MGL
08/09/98	Carbonate as CO3, Calculated		0.398	.001	MGL
08/27/98	Cation Sum		5.93	.001	MEQ
08/07/98	Chloride		21	1.000	MGL
09/02/98	Chromium, Total, ICAP/MS		55	10.000	UGL
09/02/98	Iron, Total, ICAP/MS		780	******	UGL
08/07/98	Lab pH		7.4	.001	UNI
09/10/98	Lead, Total, ICAP/MS		9.1	2.000	UGL
08/27/98	Magnesium, Total, ICAP		19	.100	MGL
08/07/98	Nitrate-N by IC		0.98	.100	MGL
08/27/98	Potassium, Total, ICAP		4.2	1.000	MGL
08/27/98	Sodium, Total, ICAP		29	1.000	MGL
08/11/98	Specific Conductance		560	4.000	UMH
08/07/98	Sulfate		45	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)		300	10.000	MGL
Analyzed	980806088	MW-983-042			
08/09/98	Alkalinity		140	2.000	MGL
08/18/98	Anion Sum		3.53	.001	MEQ
08/09/98	Bicarbonate as HCO3,calculated		171	.001	MGL
08/27/98	Calcium, Total, ICAP		40	1.000	MGL
08/09/98	Carbonate as CO3, Calculated		0.222	.001	MGL
08/27/98	Cation Sum		3.98	.001	MEQ
08/07/98	Chloride		9.6	1.000	MGL
08/07/98	Lab pH		7.3	.001	UNI
08/27/98	Magnesium, Total, ICAP		13	.100	MGL
08/07/98	Nitrate-N by IC		1.4	.100	MGL
08/27/98	Potassium, Total, ICAP		3.1	1.000	MGL
08/27/98	Sodium, Total, ICAP		19	1.000	MGL
08/11/98	Specific Conductance		380	4.000	UMH
08/07/98	Sulfate		22	2.000	MGL

08/12/98	Total Dissolved Solid (TDS)	210	10.000	MGL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

SEP 1 8 [illegible]

DEB* Debbie Frank

Report#: 45858
JPL

MONTGOMERY WATSON LABORATORIES

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

Laboratory
Report
#45858

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

Samples Received
06-aug-1998 15:32:01

MW-983-107 (980806085) Sampled on 08/06/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#45858

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	99	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#45858

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-063 (980806086) Sampled on 08/06/98								
	08/09/98	82750	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	08/18/98		(ML/SM1040)	Anion Sum	3.96	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	46	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	4.41	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	4.7	mg/l	1.0	1
	08/11/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.160	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/06/98	81942	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	415	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	160	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
08/11/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	3.4	mg/l	1.0	1
08/11/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	14	mg/l	0.10	1
08/11/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	20	mg/l	1.0	1
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	2.7	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	7.1	Units	0.0010	1
	08/07/98	82112	(ML/EPA 300.0)	Sulfate	21	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	102	% Rec		

MW-983-079 (980806087) Sampled on 08/06/98

	08/09/98	82750	(ML/S2320B)	Alkalinity	200	mg/l	2.0	1
	08/18/98		(ML/SM1040)	Anion Sum	5.50	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	60	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	5.93	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	21	mg/l	1.0	1
	08/12/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.398	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	55	ug/l	10	1
	08/06/98	81942	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	560	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	780	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	244	mg/l	0.0010	1
08/11/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	4.2	mg/l	1.0	1
08/11/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	19	mg/l	0.10	1
08/11/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	29	mg/l	1.0	1
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	0.98	mg/l	0.10	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	9.1	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	7.4	Units	0.0010	1
	08/07/98	82112	(ML/EPA 300.0)	Sulfate	45	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	96	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-042 (980806088) Sampled on 08/06/98								
	08/09/98	82750	(ML/S2320B)	Alkalinity	140	mg/l	2.0	1
	08/18/98		(ML/SM1040)	Anion Sum	3.53	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	40	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	3.98	meq/l	0.0010	1
	08/07/98	82171	(ML/EPA 300)	Chloride	9.6	mg/l	1.0	1
	08/12/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.222	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/06/98	81942	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	380	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	171	mg/l	0.0010	1
08/11/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	3.1	mg/l	1.0	1
08/11/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	13	mg/l	0.10	1
08/11/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	19	mg/l	1.0	1
	08/07/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	1.4	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/07/98	82008	(ML/SM 4500H)	Lab pH	7.3	Units	0.0010	1
	08/07/98	82112	(ML/EPA 300.0)	Sulfate	22	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/12/98	82410	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82410	(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	92	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory
QC Report
#45858

Foster Wheeler Environmental, Inc

QC Batch #81942 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	80806088		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0503	100.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0509	101.8	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0509	101.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0515	103.0	(80.00 - 120.00)	1.2

QC Batch #82008 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0806088		(0.00 - 0.00)	

QC Batch #82112 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806088		(0.00 - 0.00)	
LCS1	Sulfate	50	50.4	100.8	(90.00 - 110.00)	
LCS2	Sulfate	50	50.5	101.0	(90.00 - 110.00)	0.20
MBLK	Sulfate	ND				
MS	Sulfate	50	57.2	114.4	(80.00 - 120.00)	
MSD	Sulfate	50	57.4	114.8	(80.00 - 120.00)	0.35

QC Batch #82171 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Chloride	25	27	108.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	3.8
MBLK	Chloride	ND				
MS	Chloride	25	28	112.0	(80.00 - 120.00)	
MSD	Chloride	25	28	112.0	(80.00 - 120.00)	0.00

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

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Foster Wheeler Environmental, Inc
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QC Batch #82174 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.75	110.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	5.6
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.8	112.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.8	112.0	(80.00 - 120.00)	0.00

QC Batch #82193 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	

QC Batch #82341 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0727128		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	3.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.1	100.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.5	107.5	(75.00 - 125.00)	6.7

QC Batch #82405 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.25	103.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.47	93.4	(70.00 - 130.00)	

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

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MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.48	81.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	6.27	78.4	(70.00 - 130.00)	3.3
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.02	100.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.01	100.1	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.38	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Benzene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.72	109.0	(70.00 - 130.00)	2.2
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				

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

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LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.78	109.7	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.15	114.4	(70.00 - 130.00)	4.1
LCS1	Carbon Tetrachloride	8	7.84	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.34	104.2	(70.00 - 130.00)	

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(continued)

MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.81	97.6	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.77	97.1	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	98	98.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	8.8
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	99	99.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	86	86.0	(80.00 - 120.00)	14
LCS1	4-Bromofluorobenzene	100	96	96.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	99	99.0	(80.00 - 120.00)	4.0
LCS1	trans-1,2-Dichloroethylene	8	8.10	101.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.42	105.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.93	111.6	(70.00 - 130.00)	5.9
LCS1	Trichlorotrifluoroethane(Freon	4	3.18	79.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.26	103.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	9.02	112.8	(70.00 - 130.00)	
MSD	Toluene	8	8.10	101.2	(70.00 - 130.00)	11
LCS1	Vinyl chloride (VC)	4	4.66	116.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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(continued)

QC Batch #82410 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.25	103.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.76	97.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.61	95.1	(70.00 - 130.00)	2.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.02	100.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.01	100.1	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.38	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0805127		(0.00 - 0.00)	
LCS1	Benzene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.33	104.1	(70.00 - 130.00)	2.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.76	97.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.18	102.2	(70.00 - 130.00)	5.3
LCS1	Carbon Tetrachloride	8	7.84	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.34	104.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.81	97.6	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.77	97.1	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	97	97.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	97	97.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	96	96.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	8.10	101.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.76	109.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.77	109.6	(70.00 - 130.00)	0.11

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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LCS1	Trichlorotrifluoroethane(Freon	4	3.18	79.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.26	103.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Toluene	8	8.20	102.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	4.66	116.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82517 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	674	96.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #82750 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0804161		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.7	103.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	101	105.0	(90.00 - 110.00)	1.3
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.6	94.2	(80.00 - 120.00)	
MSD	Alkalinity	96.2	88.5	92.0	(80.00 - 120.00)	2.3

QC Batch #82801 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	1.5

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	4.7

QC Batch #83041 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	52.3	104.6	(90.00 - 110.00)	1.7
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.5	105.0	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	52.2	104.4	(80.00 - 120.00)	0.57

QC Batch #83042 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	0.00
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	22.0	110.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	22.1	110.5	(80.00 - 120.00)	0.45

QC Batch #83043 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	0.94

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #83044 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.6	103.2	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	52.7	105.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	53.3	106.6	(80.00 - 120.00)	1.1

QC Batch #83410 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	94.2	94.2	(85.00 - 115.00)	1.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	97.1	97.1	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	89.6	89.6	(70.00 - 130.00)	8.0

QC Batch #83421 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	515	103.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	1.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	517	103.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	510	102.0	(70.00 - 130.00)	1.4

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #83813 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.1	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.3	106.5	(70.00 - 130.00)	5.8

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

MONTGOMERY WATSON LABORATORIES

September 15, 1998

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

Attention: Mark Cutler

Re: Report # 45927 (MW-983-108, -109, -002, -003, -004)

Dear Mark,

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

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

Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-983-003
Diluted for Perchlorate: MW-983-004
Diluted for Carbon Tetrachloride: MW-983-004

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-002, -003, -004
1,1-Dichloroehtylene was detected in sample ID: MW0983-004
Carbon Tetrachloride was detected in sample ID: MW-983-004
Chloroform was detected in sample ID: MW-983-004
Tetrachloroethylene was detected in sample ID: MW-983-004
Trichloroethylene was detected in sample ID: MW-983-004
Perchlorate was detected in sample ID: MW-983-004

TICS:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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

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

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45927
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 08/07/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
980807088	MW-983-108			Water			08/07/98
		@EBASVOA					
980807089	MW-983-109			Water			08/07/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	CR-VI	
		CLO4					
980807090	MW-983-002			Water			08/07/98
		@EBASVOA	CR-MS	AS-GF	TDS	CATION1	
		ANION1	PH	EC	HCO3	CO3	ALK
		NO3	SO4	CL	FE-MS	K	NA
		MG	CA	CR-VI	CLO4		
980807091	MW-983-003			Water			08/07/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	AS-GF	CR-MS		
980807092	MW-983-004			Water			08/07/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	AS-GF	CR-MS		

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45927
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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

NUMBER 2684

45927

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA

SAMPLER (Name): TBINNEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (SW8260)	TOTAL Cr, Pb, Metals (Low Level)	Anions, TDS	Cr 6+	SVOC	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR Metals	QC FOR Cr 6+
MW-983-108	0850	8/7/98	2	2x40ml	X	9808	07088	X								
MW-983-109	0900	8/7/98	5	2x40ml, 1x500ml, 2x125ml	X		89	X	X		X	X				
MW-983-002	0930	8/7/98	6	2x40ml, 1x500ml, 1x500ml, 2x125ml	X		90	X	X	X	X	X				X
MW-983-003	1130	8/7/98	6	2x40ml, 1x500ml, 1x500ml, 2x125ml	X		91	X	X	X	X	X				
MW-983-004	12[illegible]	8/7/98	6	2x40ml, 1x500ml, 1x500ml, 2x125ml	X		92	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/7/98	[signature]			
COMPANY: FWEC	TIME: 1505	COMPANY	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Consentin Date Received: 8/7/98

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 8/7/98
by (print) Vijay Mapani (sign) Vijay Mapani

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

2. Were custody seals on outside of cooler? Yes No
   If YES, how many & where: yes on top
   If Yes, enter the following: seal date: 8/7/98, seal name: TPB

3. Were custody seals unbroken & intact at delivery? **Yes** ~~No~~ 8/11/98

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

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

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

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: VKM (date) 8/7/98

B. LOG-IN PHASE: Date samples were logged-in: MLD by:
(print) M. DE LUESA (sign) [signature]

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? **Yes** No

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

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

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR45927

			Result	MDL	UNITS
Analyzed	980807088	MW-983-108			
Analyzed	980807089	MW-983-109			
Analyzed	980807090	MW-983-002			
08/09/98	Alkalinity		155	2.000	MGL
08/18/98	Anion Sum		3.76	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated		188	.001	MGL
09/11/98	Calcium, Total, ICAP		27	1.000	MGL
08/09/98	Carbonate as CO3, Calculated		1.94	.001	MGL
09/11/98	Cation Sum		4.16	.001	MEQL
08/08/98	Chloride		13	1.000	MGL
09/02/98	Iron, Total, ICAP/MS		570	******	UGL
08/12/98	Lab pH		8.2	.001	UNIT
08/11/98	Magnesium, Total, ICAP		10.5	.100	MGL
08/08/98	Nitrate-N by IC		3.1	.100	MGL
09/11/98	Potassium, Total, ICAP		2.5	1.000	MGL
09/11/98	Sodium, Total, ICAP		43	1.000	MGL
08/11/98	Specific Conductance		390	4.000	UMHO
08/08/98	Sulfate		8.4	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)		240	10.000	MGL
Analyzed	980807091	MW-983-003			
08/09/98	Alkalinity		165	2.000	MGL
08/18/98	Anion Sum		4.52	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated		201	.001	MGL
09/11/98	Calcium, Total, ICAP		40	1.000	MGL
08/09/98	Carbonate as CO3, Calculated		0.824	.001	MGL
09/11/98	Cation Sum		5.05	.001	MEQL
08/08/98	Chloride		28	2.000	MGL
09/02/98	Iron, Total, ICAP/MS		1700	******	UGL
08/12/98	Lab pH		7.8	.001	UNIT
09/11/98	Magnesium, Total, ICAP		14	.100	MGL
08/08/98	Nitrate-N by IC		2.2	.200	MGL
09/11/98	Potassium, Total, ICAP		2.7	1.000	MGL
09/11/98	Sodium, Total, ICAP		42	1.000	MGL
08/11/98	Specific Conductance		485	4.000	UMHO
08/08/98	Sulfate		18	4.000	MGL
08/12/98	Total Dissolved Solid (TDS)		320	10.000	MGL
Analyzed	980807092	MW-983-004			
08/12/98	1,1-Dichloroethylene		2.0	.500	UGL
08/13/98	Carbon Tetrachloride		58	2.500	UGL
08/12/98	Chloroform (Trichloromethane)		8.4	.500	UGL
08/12/98	Tetrachloroethylene (PCE)		1.5	.500	UGL
08/12/98	Trichloroethylene (TCE)		4.2	.500	UGL
08/09/98	Alkalinity		130	2.000	MGL
08/18/98	Anion Sum		3.82	.001	MEQL
08/09/98	Bicarbonate as HCO3,calculated		158	.001	MGL
09/11/98	Calcium, Total, ICAP		26	1.000	MGL
08/09/98	Carbonate as CO3, Calculated		2.05	.001	MGL

09/11/98	Cation Sum	4.19	.001	MEQL
08/08/98	Chloride	29	1.000	MGL
09/02/98	Iron, Total, ICAP/MS	840	******	UGL
08/12/98	Lab pH	8.3	.001	UNIT
09/11/98	Magnesium, Total, ICAP	11	.100	MGL
08/08/98	Nitrate-N by IC	3.0	.100	MGL
08/18/98	Perchlorate	500	40.000	UGL
09/11/98	Potassium, Total, ICAP	3.3	1.000	MGL
09/11/98	Sodium, Total, ICAP	44	1.000	MGL
08/11/98	Specific Conductance	410	4.000	UMHO
08/08/98	Sulfate	14	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)	250	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON
SEP 14 1998
DEB* Debbie Frank

Report#: 45927
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report #45927

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

Samples Received
07-aug-1998 15:28:50

MW-983-108 (980807088) Sampled on 08/07/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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

Laboratory
Report
#45927

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	96	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MONTGOMERY WATSON LABORATORIES

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-109 (980807089) Sampled on 08/07/98								
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	08/12/98	82341	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/07/98	82048	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#45927

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	104	% Rec		
MW-983-002 (980807090) Sampled on 08/07/98								
	08/09/98	82750	(ML/S2320B)	Alkalinity	155	mg/l	2.0	1
	08/18/98		(ML/SM1040)	Anion Sum	3.76	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	09/11/98	82237	(EPA/ML 200.7)	Calcium, Total, ICAP	27	mg/l	1.0	1
	09/11/98		(ML/SM1040)	Cation Sum	4.16	meq/l	0.0010	1
	08/08/98	82171	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.94	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/07/98	82048	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82193	(ML/S2510B)	Specific Conductance	390	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	570	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	188	mg/l	0.0010	1
08/11/98	09/11/98	82240	(ML/EPA 200.7)	Potassium, Total, ICAP	2.5	mg/l	1.0	1
08/11/98	08/11/98	82243	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.5	mg/l	0.10	1
08/11/98	09/11/98	82246	(ML/EPA 200.7)	Sodium, Total, ICAP	43	mg/l	1.0	1
	08/08/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	3.1	mg/l	0.10	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	8.2	Units	0.0010	1
	08/08/98	82115	(ML/EPA 300.0)	Sulfate	8.4	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	08/12/98	82410	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82410	(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	99	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-983-003 (980807091) Sampled on 08/07/98

	08/09/98	82750	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	08/18/98		(ML/SM1040)	Anion Sum	4.52	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	09/11/98	82237	(EPA/ML 200.7)	Calcium, Total, ICAP	40	mg/l	1.0	1
	09/11/98		(ML/SM1040)	Cation Sum	5.05	meq/l	0.0010	1
	08/08/98	82171	(ML/EPA 300)	Chloride	28	mg/l	2.0	2
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.824	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/07/98	82048	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82194	(ML/S2510B)	Specific Conductance	485	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1700	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
08/11/98	09/11/98	82240	(ML/EPA 200.7)	Potassium, Total, ICAP	2.7	mg/l	1.0	1
08/11/98	09/11/98	82243	(ML/EPA 200.7)	Magnesium, Total, ICAP	14	mg/l	0.10	1
08/11/98	09/11/98	82246	(ML/EPA 200.7)	Sodium, Total, ICAP	42	mg/l	1.0	1
	08/08/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	2.2	mg/l	0.20	2

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82332	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	08/08/98	82115	(ML/EPA 300.0)	Sulfate	18	mg/l	4.0	2
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	320	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-004 (980807092) Sampled on 08/07/98								
	08/09/98	82750	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	08/18/98		(ML/SM1040)	Anion Sum	3.82	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	09/11/98	82237	(EPA/ML 200.7)	Calcium, Total, ICAP	26	mg/l	1.0	1
	09/11/98		(ML/SM1040)	Cation Sum	4.19	meq/l	0.0010	1
	08/08/98	82171	(ML/EPA 300)	Chloride	29	mg/l	1.0	1
	08/18/98	82652	(MOD/EPA 300)	Perchlorate	500	ug/l	40	10
	08/09/98		(ML/S2320-B)	Carbonate as CO3, Calculated	2.05	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/07/98	82048	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82194	(ML/S2510B)	Specific Conductance	410	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	840	ug/l	100	1
	08/09/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	158	mg/l	0.0010	1
08/11/98	09/11/98	82240	(ML/EPA 200.7)	Potassium, Total, ICAP	3.3	mg/l	1.0	1
08/11/98	09/11/98	82243	(ML/EPA 200.7)	Magnesium, Total, ICAP	11	mg/l	0.10	1
08/11/98	09/11/98	82246	(ML/EPA 200.7)	Sodium, Total, ICAP	44	mg/l	1.0	1
	08/08/98	82174	(ML/EPA 300.0)	Nitrate-N by IC	3.0	mg/l	0.10	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	8.3	Units	0.0010	1
	08/08/98	82120	(ML/EPA 300.0)	Sulfate	14	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	250	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	2.0	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	58	ug/l	2.5	5
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	8.4	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	4.2	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	90	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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QC Batch #82048 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	80807090		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	0.00

QC Batch #82115 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	
LCS1	Sulfate	50	50.5	101.0	(90.00 - 110.00)	
LCS2	Sulfate	50	50.6	101.2	(90.00 - 110.00)	0.20
MBLK	Sulfate	ND				
MS	Sulfate	50	55.8	111.6	(80.00 - 120.00)	
MSD	Sulfate	50	54.8	109.6	(80.00 - 120.00)	1.8

QC Batch #82120 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807092		(0.00 - 0.00)	
LCS1	Sulfate	50	50.6	101.2	(90.00 - 110.00)	
LCS2	Sulfate	50	50.6	101.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	56.4	112.8	(80.00 - 120.00)	
MSD	Sulfate	50	56.5	113.0	(80.00 - 120.00)	0.18

QC Batch #82171 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Chloride	25	27	108.0	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	3.8

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

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MBLK	Chloride	ND				
MS	Chloride	25	28	112.0	(80.00 - 120.00)	
MSD	Chloride	25	28	112.0	(80.00 - 120.00)	0.00

QC Batch #82174 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.75	110.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.6	104.0	(90.00 - 110.00)	5.6
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.8	112.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.8	112.0	(80.00 - 120.00)	0.00

QC Batch #82193 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	

QC Batch #82194 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0810081		(0.00 - 0.00)	

QC Batch #82237 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	50.3	101.0	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	50.4	101.0	(90.00 - 110.00)	0.20
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.0	100.0	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	49.9	100.0	(80.00 - 120.00)	0.20

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QC Batch #82240 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.5	103.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.1	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 120.00)	0.48

QC Batch #82243 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.3	101.5	(85.00 - 115.00)	0.49
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.4	102.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.3	101.5	(70.00 - 130.00)	0.49

QC Batch #82246 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807090		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.2	100.0	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	50.3	100.8	(80.00 - 120.00)	0.20
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.8	100.0	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	49.5	99.0	(80.00 - 120.00)	0.60

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QC Batch #82332 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0811043		(0.00 - 0.00)	

QC Batch #82341 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0727128		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.1	100.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	3.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.1	100.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.5	107.5	(75.00 - 125.00)	6.7

QC Batch #82343 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810081		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.8	109.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.4	92.0	(90.00 - 110.00)	17
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.4	112.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	7.9

QC Batch #82405 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.25	103.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.47	93.4	(70.00 - 130.00)	

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(continued)

MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.48	81.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	6.27	78.4	(70.00 - 130.00)	3.3
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.02	100.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.01	100.1	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.38	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Benzene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.72	109.0	(70.00 - 130.00)	2.2
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				

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

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Laboratory
QC Report
#45927

Foster Wheeler Environmental, Inc
(continued)

LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.78	109.7	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.15	114.4	(70.00 - 130.00)	4.1
LCS1	Carbon Tetrachloride	8	7.84	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.34	104.2	(70.00 - 130.00)	

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

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(continued)

MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.81	97.6	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.77	97.1	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	98	98.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	8.8
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	99	99.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	86	86.0	(80.00 - 120.00)	14
LCS1	4-Bromofluorobenzene	100	96	96.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	99	99.0	(80.00 - 120.00)	4.0
LCS1	trans-1,2-Dichloroethylene	8	8.10	101.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.42	105.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.93	111.6	(70.00 - 130.00)	5.9
LCS1	Trichlorotrifluoroethane(Freon	4	3.18	79.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.26	103.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	9.02	112.8	(70.00 - 130.00)	
MSD	Toluene	8	8.10	101.2	(70.00 - 130.00)	11
LCS1	Vinyl chloride (VC)	4	4.66	116.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #82410 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.25	103.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.76	97.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.61	95.1	(70.00 - 130.00)	2.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.02	100.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.01	100.1	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.38	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0805127		(0.00 - 0.00)	
LCS1	Benzene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.33	104.1	(70.00 - 130.00)	2.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.76	97.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.18	102.2	(70.00 - 130.00)	5.3
LCS1	Carbon Tetrachloride	8	7.84	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.34	104.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.81	97.6	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.77	97.1	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	97	97.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	97	97.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	96	96.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	8.10	101.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.76	109.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.77	109.6	(70.00 - 130.00)	0.11

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

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	4	3.18	79.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.26	103.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Toluene	8	8.20	102.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	4.66	116.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82517 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	674	96.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #82652 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0811043		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.3	91.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.3	101.5	(90.00 - 110.00)	10
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.3	86.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.3	91.5	(75.00 - 125.00)	5.6

QC Batch #82750 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0804161		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.7	103.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	101	105.0	(90.00 - 110.00)	1.3

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.6	94.2	(80.00 - 120.00)	
MSD	Alkalinity	96.2	88.5	92.0	(80.00 - 120.00)	2.3

QC Batch #82801 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	1.5
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	4.7

QC Batch #83410 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	94.2	94.2	(85.00 - 115.00)	1.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	97.1	97.1	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	89.6	89.6	(70.00 - 130.00)	8.0

QC Batch #83421 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	515	103.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	1.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	517	103.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	510	102.0	(70.00 - 130.00)	1.4

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #83813 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.1	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.3	106.5	(70.00 - 130.00)	5.8

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

MONTGOMERY WATSON LABORATORIES

September 20, 1998

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

Attention: Mark Cutler

Re: Report # 45979 (MW-983-110, -111, -011, -012, -013)

Dear Mark,

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

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used for MS/MSD are 70-130%. All data is acceptable.
(Ca-FL) The Limits for LCS are incorrectly listed in the QC report as 90-110%. The actual limits used for LCS are 85-115%. All data is acceptable.

Samples requiring dilution (with increased MRL's):
Diluted for anions: MW-983-013

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-011, -012, -013

TICS:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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

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

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45979
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 08/10/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix				Sample Date
980810077	MW-983-110		Water				08/10/98
		@EBASVOA					
980810078	MW-983-111		Water				08/10/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	CR-VI	
		CLO4					
980810079	MW-983-011		Water				08/10/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
980810080	MW-983-012		Water				08/10/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	K
		ALK	NO3	SO4	CL	FE-MS	CO3
		NA	MG	CA	CR-VI	CLO4	
980810081	MW-983-013		Water				08/10/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	CO3	FE-MS	CL	SO4	NO3
		ALK	K	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate

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

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PO#: Sub PO#007618-0003
Group#: 45979
Project#: JPL
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Phone: (714) 444-5526

Test Acronym Description

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

NUMBER 2685

45979

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 0750 0000

PROJECT ADDRESS: 4800 OAK GROVE Blvd. PASADENA, CA

SAMPLER (Name): David Dirkin

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SAMPLE MATERIAL: SOIL	SAMPLE MATERIAL: OTHER (Describe)	VOCs (524.2)	TOTAL METALS Cs, As, Pb (6010/7000)	Cr+6	CLO4	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr+6	Anions + TDS
MW 983-110	0730	8/10/98	2	40 mL	X			X								
MW-983-111	0800	8/10/98	5	2x40, 1x250, 2x125	X			X	X	X	X					
MW-983-011	0905	8/10/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X					X
MW-983-012	1010	8/10/98	6	2x40, 2x500, 2x125	X		080	X	X	X	X			X	X	X
MW-983-012MS	1010	8/10/98	2	40 mL	X							X				
MW-983-012MSD	1010	8/10/98	2	40 mL	X								X			
MW-983-013	1115	8/10/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X					X

END

no tag #

DKD

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8-11-98	[signature]			
COMPANY: Foster Wheeler	TIME: 15:08	COMPANY: MWL	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 8-10-98

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 8-10-98
by (print) Mike Chhiang (sign) [signature]

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

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 seals, on opening of cooler
   If Yes, enter the following: seal date: 8-10-98, seal name: DD

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

4. Were custody papers sealed in bag & taped to lid? ~~Yes~~ **No** → hand

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

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

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: yes (date) 8-10-98

B. LOG-IN PHASE: Date samples were logged-in: 8-10-98 by:
(print) Mike Chhiang (sign) [signature]

9. Describe packing:

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

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

12. Did all bottles arrive unbroken/in good condition? **Yes** No
C104 bottle for MW-983-012 was missing a tag #

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

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

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

16. Were correct preservatives used when required? **Yes** No

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

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

19. Was Client Services informed of problems? Yes ~~Yes~~ **No**

contacted M. Losi 8/10 & T Blaney 8/12

[signature] 8/12/98

Report Summary of positive results, PR45979

			Result	MDL	UNITS
Analyzed	980810077	MW-983-110			
Analyzed	980810078	MW-983-111			
Analyzed	980810079	MW-983-011			
08/21/98	Alkalinity		110	2.000	MGL
08/27/98	Anion Sum		3.47	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated		130	.001	MGL
08/27/98	Calcium, Total, ICAP		6.2	1.000	MGL
08/27/98	Carbonate as CO3, Calculated		8.45	.001	MGL
08/27/98	Cation Sum		3.99	.001	MEQL
08/12/98	Chloride		8.8	1.000	MGL
09/02/98	Iron, Total, ICAP/MS		240	******	UGL
08/12/98	Lab pH		9.0	.001	UNIT
08/27/98	Magnesium, Total, ICAP		1.5	.100	MGL
08/27/98	Potassium, Total, ICAP		1.5	1.000	MGL
08/27/98	Sodium, Total, ICAP		81	1.000	MGL
08/11/98	Specific Conductance		410	4.000	UMHO
08/12/98	Sulfate		49	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)		250	10.000	MGL
Analyzed	980810080	MW-983-012			
08/21/98	Alkalinity		135	2.000	MGL
08/27/98	Anion Sum		3.49	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated		164	.001	MGL
08/27/98	Calcium, Total, ICAP		34	1.000	MGL
08/27/98	Carbonate as CO3, Calculated		0.847	.001	MGL
08/27/98	Cation Sum		3.92	.001	MEQL
08/12/98	Chloride		12	1.000	MGL
09/02/98	Iron, Total, ICAP/MS		240	******	UGL
08/12/98	Lab pH		7.9	.001	UNIT
08/27/98	Magnesium, Total, ICAP		11	.100	MGL
08/12/98	Nitrate-N by IC		4.3	.100	MGL
08/27/98	Potassium, Total, ICAP		2.2	1.000	MGL
08/27/98	Sodium, Total, ICAP		29	1.000	MGL
08/11/98	Specific Conductance		375	4.000	UMHO
08/12/98	Sulfate		7.1	2.000	MGL
08/12/98	Total Dissolved Solid (TDS)		220	10.000	MGL
Analyzed	980810081	MW-983-013			
08/21/98	Alkalinity		145	2.000	MGL
08/27/98	Anion Sum		4.87	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated		176	.001	MGL
08/27/98	Calcium, Total, ICAP		45	1.000	MGL
08/27/98	Carbonate as CO3, Calculated		1.44	.001	MGL
08/27/98	Cation Sum		5.33	.001	MEQL
08/12/98	Chloride		31	2.000	MGL
09/02/98	Iron, Total, ICAP/MS		330	******	UGL
08/12/98	Lab pH		8.1	.001	UNIT
08/27/98	Magnesium, Total, ICAP		17	.100	MGL
08/12/98	Nitrate-N by IC		8.6	.200	MGL

08/27/98	Potassium, Total, ICAP	2.8	1.000	MGL
08/27/98	Sodium, Total, ICAP	37	1.000	MGL
08/11/98	Specific Conductance	525	4.000	UMHO
08/12/98	Sulfate	23	4.000	MGL
08/12/98	Total Dissolved Solid (TDS)	310	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

SEP 18 1990

DEB* Debbie Frank

Report#: 45979
JPL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
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Laboratory
Report
#45979

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

Samples Received
10-aug-1998 15:14:05

MW-983-110 (980810077) Sampled on 08/10/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#45979

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-111 (980810078) Sampled on 08/10/98								
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/98	82155	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	08/12/98	82405	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82405	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
Report
#45979

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82405	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82405	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82405	(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	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	103	% Rec		
MW-983-011 (980810079) Sampled on 08/10/98								
	08/21/98	83081	(ML/S2320B)	Alkalinity	110	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	3.47	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	6.2	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	3.99	meq/l	0.0010	1
	08/12/98	82420	(ML/EPA 300)	Chloride	8.8	mg/l	1.0	1
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	8.45	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/98	82155	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82194	(ML/S2510B)	Specific Conductance	410	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	240	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	130	mg/l	0.0010	1
08/11/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	1.5	mg/l	1.0	1
08/11/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	1.5	mg/l	0.10	1
08/11/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	81	mg/l	1.0	1
	08/12/98	82423	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	9.0	Units	0.0010	1
	08/12/98	82424	(ML/EPA 300.0)	Sulfate	49	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	250	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/12/98	82410	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82410	(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	104	% Rec		
			(Surrogate)	Toluene-d8	107	% Rec		

MW-983-012 (980810080) Sampled on 08/10/98

	08/21/98	83081	(ML/S2320B)	Alkalinity	135	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	3.49	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	34	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	3.92	meq/l	0.0010	1
	08/12/98	82420	(ML/EPA 300)	Chloride	12	mg/l	1.0	1
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.847	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/98	82155	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82194	(ML/S2510B)	Specific Conductance	375	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	240	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	164	mg/l	0.0010	1
08/11/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	2.2	mg/l	1.0	1
08/11/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	11	mg/l	0.10	1
08/11/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	29	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82423	(ML/EPA 300.0)	Nitrate-N by IC	4.3	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	7.9	Units	0.0010	1
	08/12/98	82424	(ML/EPA 300.0)	Sulfate	7.1	mg/l	2.0	1
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/12/98	82410	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-013 (980810081) Sampled on 08/10/98								
	08/21/98	83082	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	4.87	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/11/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	45	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	5.33	meq/l	0.0010	1
	08/12/98	82420	(ML/EPA 300)	Chloride	31	mg/l	2.0	2
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.44	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/10/98	82155	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/11/98	82194	(ML/S2510B)	Specific Conductance	525	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	330	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
08/11/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	2.8	mg/l	1.0	1
08/11/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	17	mg/l	0.10	1
08/11/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	37	mg/l	1.0	1
	08/12/98	82423	(ML/EPA 300.0)	Nitrate-N by IC	8.6	mg/l	0.20	2
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	8.1	Units	0.0010	1
	08/12/98	82424	(ML/EPA 300.0)	Sulfate	23	mg/l	4.0	2
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	310	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	08/12/98	82410	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/12/98	82410	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/12/98	82410	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/12/98	82410	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/12/98	82410	(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	97	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Laboratory
QC Report
#45979

Foster Wheeler Environmental, Inc

QC Batch #82155 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	80810079		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0508	101.6	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	0.00

QC Batch #82194 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0810081		(0.00 - 0.00)	

QC Batch #82332 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0811043		(0.00 - 0.00)	

QC Batch #82343 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810081		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.8	109.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.4	92.0	(90.00 - 110.00)	17
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.4	112.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	7.9

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

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

QC Batch #82405 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.25	103.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	6.48	81.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	6.27	78.4	(70.00 - 130.00)	3.3
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.02	100.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.01	100.1	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.38	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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

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MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0803027		(0.00 - 0.00)	
LCS1	Benzene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.72	109.0	(70.00 - 130.00)	2.2
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.78	109.7	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.15	114.4	(70.00 - 130.00)	4.1
LCS1	Carbon Tetrachloride	8	7.84	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.34	104.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.81	97.6	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.77	97.1	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	98	98.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	8.8
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	99	99.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	86	86.0	(80.00 - 120.00)	14
LCS1	4-Bromofluorobenzene	100	96	96.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	99	99.0	(80.00 - 120.00)	4.0
LCS1	trans-1,2-Dichloroethylene	8	8.10	101.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.42	105.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.93	111.6	(70.00 - 130.00)	5.9

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LCS1	Trichlorotrifluoroethane(Freon	4	3.18	79.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.26	103.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	9.02	112.8	(70.00 - 130.00)	
MSD	Toluene	8	8.10	101.2	(70.00 - 130.00)	11
LCS1	Vinyl chloride (VC)	4	4.66	116.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82410 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.25	103.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.47	93.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.76	97.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.61	95.1	(70.00 - 130.00)	2.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.02	100.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.01	100.1	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				

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MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.38	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0805127		(0.00 - 0.00)	
LCS1	Benzene	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.33	104.1	(70.00 - 130.00)	2.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.21	102.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.76	97.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.18	102.2	(70.00 - 130.00)	5.3
LCS1	Carbon Tetrachloride	8	7.84	98.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	8.08	101.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.69	96.1	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				

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LCS1	Bromodichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.53	94.1	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.34	104.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.81	97.6	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.77	97.1	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.60	107.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93	93.0		
MS	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	96	96.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	97	97.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	97	97.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	96	96.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		

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MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	8.10	101.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.76	109.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.77	109.6	(70.00 - 130.00)	0.11
LCS1	Trichlorotrifluoroethane(Freon	4	3.18	79.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.26	103.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Toluene	8	8.20	102.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	4.66	116.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82420 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chloride	25	25	100.0	(90.00 - 110.00)	
LCS2	Chloride	25	25	100.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	27	108.0	(80.00 - 120.00)	
MSD	Chloride	25	27	108.0	(80.00 - 120.00)	0.00

QC Batch #82423 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.5	100.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.5	100.0	(90.00 - 110.00)	0.00

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MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.5	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.6	104.0	(80.00 - 120.00)	3.9

QC Batch #82424 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Sulfate	50	49	98.0	(90.00 - 110.00)	
LCS2	Sulfate	50	50	100.0	(90.00 - 110.00)	2.0
MBLK	Sulfate	ND				
MS	Sulfate	50	53	106.0	(80.00 - 120.00)	
MSD	Sulfate	50	54	108.0	(80.00 - 120.00)	1.9

QC Batch #82517 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	674	96.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #82801 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	1.5
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	4.7

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QC Batch #83041 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	52.3	104.6	(90.00 - 110.00)	1.7
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.5	105.0	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	52.2	104.4	(80.00 - 120.00)	0.57

QC Batch #83042 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	0.00
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	22.0	110.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	22.1	110.5	(80.00 - 120.00)	0.45

QC Batch #83043 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	0.94

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QC Batch #83044 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.6	103.2	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	52.7	105.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	53.3	106.6	(80.00 - 120.00)	1.1

QC Batch #83081 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807128		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	93.9	97.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	93.8	97.5	(90.00 - 110.00)	0.11
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	85.0	88.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	85.0	88.4	(80.00 - 120.00)	0.00

QC Batch #83082 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0812201		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	93.0	96.7	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.0	101.9	(90.00 - 110.00)	5.2
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	0.00

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QC Batch #83410 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	94.2	94.2	(85.00 - 115.00)	1.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	97.1	97.1	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	89.6	89.6	(70.00 - 130.00)	8.0

QC Batch #83421 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	515	103.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	1.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	517	103.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	510	102.0	(70.00 - 130.00)	1.4

QC Batch #83813 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.1	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.3	106.5	(70.00 - 130.00)	5.8

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

MONTGOMERY WATSON LABORATORIES

September 15, 1998

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

Attention: Mark Cutler

Re: Report # 45995 (MW-983-112, -113, -014, -015)

Dear Mark,

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

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-014
1,1-Dichloroethane was detected in sample ID: MW-983-015
Tetrachloroethylene was detected in sample ID: MW-983-015
Trichloroethylene was detected in sample ID: MW-983-015
Perchlorate was detected in sample ID: MW-983-014, -015
TICS:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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

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

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45995
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 08/11/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled					Matrix	Sample Date
980811040	MW-983-112						Water	08/11/98
		@EBASVOA						
980811041	MW-983-113						Water	08/11/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	CR-VI		
		CLO4						
980811042	MW-983-014						Water	08/11/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS		
		CATION1	ANION1	PH	EC	HCO3	CO3	
		ALK	NO3	SO4	CL	FE-MS	K	
		NA	MG	CA	CR-VI	CLO4		
980811043	MW-983-015						Water	08/11/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-MS	AS-GF	CR-MS		

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-GF	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-MS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 45995
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

45995

NUMBER

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 0250 0000

PROJECT ADDRESS: 4800 OAK GROVE Blvd, PASADENA, CA

SAMPLER (Name): David Dirkin

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Watson

REPORTS TO BE SENT TO: Mark Cutter

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL METALS Cr As + Pb (6010/70M)	Anions + TDS	Cr+6	CLO4	QC FOR Cr+6				
MW-983-112	0130	8/11/98	2	40ml	X			X									
MW-983-113	0945	8/11/98	5	[illegible]	X			X	X		X	X					
MW-983-014	1020	8/11/98	6	[illegible]	X			X	X	X	X	X	X				
MW 983-015	1255	[illegible]	6	[illegible]	X			X	X	X	X	X					
END																	

DSD

DSD

LABORATORY INSTRUCTIONS/COMMENTS

Level II QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	[illegible]	[signature]			
COMPANY: Foster Wheeler	TIME: [illegible]	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 8-11-98

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 8-11-98
by (print) Mike Cohens (sign) [illegible]

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

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 seals on opening of cooler
   If Yes, enter the following: seal date: 8-11-98, seal name: DD

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

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

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

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

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: _____(date)_____

B. LOG-IN PHASE: Date samples were logged-in: 8-11-98 by:
(print) M. DE MESA (sign) [illegible]

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? **Yes** No

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

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

19. Was Client Services informed of problems? **Yes** No

Report Summary of positive results, PR45995

			Result	MDL	UNITS
Analyzed	980811040	MW-983-112			
Analyzed	980811041	MW-983-113			
Analyzed	980811042	MW-983-014			
08/21/98	Alkalinity		160	2.000	MGL
08/27/98	Anion Sum		6.72	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated		195	.001	MGL
08/27/98	Calcium, Total, ICAP		70	1.000	MGL
08/27/98	Carbonate as CO3, Calculated		1.01	.001	MGL
08/27/98	Cation Sum		7.45	.001	MEQL
08/13/98	Chloride		58	2.000	MGL
09/02/98	Iron, Total, ICAP/MS		340	******	UGL
08/12/98	Lab pH		7.9	.001	UNIT
08/27/98	Magnesium, Total, ICAP		29	.100	MGL
08/13/98	Nitrate-N by IC		9.8	.200	MGL
08/12/98	Perchlorate		4.9	4.000	UGL
08/27/98	Potassium, Total, ICAP		3.4	1.000	MGL
08/27/98	Sodium, Total, ICAP		34	1.000	MGL
08/18/98	Specific Conductance		790	4.000	UMHO
08/13/98	Sulfate		57	4.000	MGL
08/12/98	Total Dissolved Solid (TDS)		460	10.000	MGL
Analyzed	980811043	MW-983-015			
08/13/98	1,1-Dichloroethane		0.6	.500	UGL
08/13/98	Tetrachloroethylene (PCE)		1.7	.500	UGL
08/13/98	Trichloroethylene (TCE)		0.9	.500	UGL
08/21/98	Alkalinity		250	2.000	MGL
08/27/98	Anion Sum		12.4	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated		305	.001	MGL
08/27/98	Calcium, Total, ICAP		140	1.000	MGL
08/27/98	Carbonate as CO3, Calculated		1.25	.001	MGL
08/27/98	Cation Sum		13.0	.001	MEQL
08/13/98	Chloride		120	3.000	MGL
09/02/98	Iron, Total, ICAP/MS		290	******	UGL
08/12/98	Lab pH		7.8	.001	UNIT
08/27/98	Magnesium, Total, ICAP		53	.100	MGL
08/13/98	Nitrate-N by IC		10	.300	MGL
08/18/98	Perchlorate		6.4	4.000	UGL
08/27/98	Potassium, Total, ICAP		4.3	1.000	MGL
08/27/98	Sodium, Total, ICAP		35	1.000	MGL
08/18/98	Specific Conductance		1340	4.000	UMHO
08/13/98	Sulfate		160	6.000	MGL
08/12/98	Total Dissolved Solid (TDS)		750	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON
SEP 14 1998
DEB* Debbie Frank

Report#: 45995
JPL

MONTGOMERY WATSON LABORATORIES

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

Laboratory Report #45995

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

Samples Received
11-aug-1998 14:39:50

MW-983-112 (980811040) Sampled on 08/11/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/13/98	82539	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/13/98	82539	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/98	82539	(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	98	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MONTGOMERY WATSON LABORATORIES

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

Laboratory
Report
#45995

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-113 (980811041) Sampled on 08/11/98								
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/98	82247	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	08/13/98	82539	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(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	MDL	Dilution
	08/13/98	82539	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/98	82539	(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	104	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	96	% Rec		
MW-983-014 (980811042) Sampled on 08/11/98								
	08/21/98	83081	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	6.72	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	70	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	7.45	meq/l	0.0010	1
	08/13/98	82420	(ML/EPA 300)	Chloride	58	mg/l	2.0	2
	08/12/98	82343	(MOD/EPA 300)	Perchlorate	4.9	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.01	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/98	82247	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82575	(ML/S2510B)	Specific Conductance	790	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	340	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	3.4	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	29	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	34	mg/l	1.0	1
	08/13/98	82423	(ML/EPA 300.0)	Nitrate-N by IC	9.8	mg/l	0.20	2
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	7.9	Units	0.0010	1
	08/13/98	82424	(ML/EPA 300.0)	Sulfate	57	mg/l	4.0	2
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	460	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/13/98	82539	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/13/98	82539	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/98	82539	(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	93	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MW-983-015 (980811043) Sampled on 08/11/98

	08/21/98	83081	(ML/S2320B)	Alkalinity	250	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	12.4	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	140	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	13.0	meq/l	0.0010	1
	08/13/98	82420	(ML/EPA 300)	Chloride	120	mg/l	3.0	3
	08/18/98	82652	(MOD/EPA 300)	Perchlorate	6.4	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.25	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/11/98	82247	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82575	(ML/S2510B)	Specific Conductance	1340	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	290	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	305	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	4.3	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	53	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	35	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/13/98	82423	(ML/EPA 300.0)	Nitrate-N by IC	10	mg/l	0.30	3
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/12/98	82332	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	08/13/98	82424	(ML/EPA 300.0)	Sulfate	160	mg/l	6.0	3
	08/12/98	82517	(ML/S2540C)	Total Dissolved Solid (TDS)	750	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/13/98	82539	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethane	0.6	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/13/98	82539	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/13/98	82539	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.7	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.9	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/13/98	82539	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/13/98	82539	(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	89	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Laboratory QC Report #45995

Foster Wheeler Environmental, Inc

QC Batch #82247 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0811042		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0508	101.6	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0508	101.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(80.00 - 120.00)	1.2

QC Batch #82332 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0811043		(0.00 - 0.00)	

QC Batch #82343 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810081		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.8	109.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.4	92.0	(90.00 - 110.00)	17
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.4	112.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	7.9

QC Batch #82420 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chloride	25	25	100.0	(90.00 - 110.00)	
LCS2	Chloride	25	25	100.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	27	108.0	(80.00 - 120.00)	
MSD	Chloride	25	27	108.0	(80.00 - 120.00)	0.00

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

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QC Batch #82423 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.5	100.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.5	100.0	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.5	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.6	104.0	(80.00 - 120.00)	3.9

QC Batch #82424 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Sulfate	50	49	98.0	(90.00 - 110.00)	
LCS2	Sulfate	50	50	100.0	(90.00 - 110.00)	2.0
MBLK	Sulfate	ND				
MS	Sulfate	50	53	106.0	(80.00 - 120.00)	
MSD	Sulfate	50	54	108.0	(80.00 - 120.00)	1.9

QC Batch #82517 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0805131		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	674	96.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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QC Batch #82539 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.03	100.4	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.64	95.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.82	97.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.70	96.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.71	96.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.76	97.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.61	95.1	(70.00 - 130.00)	2.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.07	100.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.24	103.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.51	106.4	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.43	105.4	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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Foster Wheeler Environmental, Inc
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MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0805127		(0.00 - 0.00)	
LCS1	Benzene	8	8.67	108.4	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.33	104.1	(70.00 - 130.00)	2.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.38	104.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.50	106.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.76	97.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.18	102.2	(70.00 - 130.00)	5.3
LCS1	Carbon Tetrachloride	8	7.90	98.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.95	99.4	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	8.46	105.8	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.70	96.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.90	98.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	8.10	101.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.50	106.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.99	99.8	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	17.3	108.1	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.13	101.6	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	8.09	101.1	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.75	96.9	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.41	105.1	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	90	90.0		
MS	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	99	99.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	104	104.0		
MS	Toluene-d8	100	97	97.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	97	97.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	98	98.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	7.83	97.9	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.32	104.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.76	109.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.77	109.6	(70.00 - 130.00)	0.11

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LCS1	Trichlorotrifluoroethane(Freon	4	3.23	80.8	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.55	106.9	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Toluene	8	8.20	102.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	4.55	113.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82575 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0812003		(0.00 - 0.00)	

QC Batch #82652 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0811043		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.3	91.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.3	101.5	(90.00 - 110.00)	10
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.3	86.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.3	91.5	(75.00 - 125.00)	5.6

QC Batch #82801 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	1.5
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	4.7

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Foster Wheeler Environmental, Inc
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QC Batch #83041 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	52.3	104.6	(90.00 - 110.00)	1.7
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.5	105.0	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	52.2	104.4	(80.00 - 120.00)	0.57

QC Batch #83042 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	0.00
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	22.0	110.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	22.1	110.5	(80.00 - 120.00)	0.45

QC Batch #83043 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	0.94

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

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Foster Wheeler Environmental, Inc
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QC Batch #83044 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.6	103.2	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	52.7	105.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	53.3	106.6	(80.00 - 120.00)	1.1

QC Batch #83081 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807128		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	93.9	97.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	93.8	97.5	(90.00 - 110.00)	0.11
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	85.0	88.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	85.0	88.4	(80.00 - 120.00)	0.00

QC Batch #83410 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	94.2	94.2	(85.00 - 115.00)	1.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	97.1	97.1	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	89.6	89.6	(70.00 - 130.00)	8.0

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QC Batch #83421 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	515	103.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	1.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	517	103.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	510	102.0	(70.00 - 130.00)	1.4

QC Batch #83813 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.1	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	21.3	106.5	(70.00 - 130.00)	5.8

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

MONTGOMERY WATSON LABORATORIES

September 16, 1998

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

Attention: Mark Cutler

Re: Report # 46131 (MW-983-114, -115, -006, -007, -008, -009, -010)

Dear Mark,

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

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(As-GF) The limits for MS/MSD are incorrectly listed in the QC report as 85-115. The actual limits used are 70-130. All data is acceptable.
MW-983-010 is not associated with an MS/MSD for Arsenic, Chromium, Lead, or Iron analyses. Duplicate LCSs and Method blank are within acceptable recovery limits and RPD limits. The QAPP does not specify to default to Duplicate LCSs. See Method Variances below and attached QIR# MET-98-09 as a reference.

Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-983-009

Method blanks with compounds detected:
None

Other Comments:
Cations are analyzed by EPA 200.7.
The ion balance exceeds QC criteria for sample ID: MW-983-007, -008, -010
Dichloromethane was detected in sample ID: MW-983-114, -115, -006, -007, -008, -009, -010
The laboratory was experiencing inconsistent contamination with this compound at the time of this analysis. It is the opinion of Montgomery Watson Laboratories that this detect is due to laboratory contamination, even though it is not detected in the Method Blank associated with these samples. See the Attached QIR GCMS-98-27 and -25
1,1-dichloroethane was detected in sample ID: MW-983-009
Carbon tetrachloride was detected in sample ID: MW-983-010
Chloroform was detected in sample ID: MW-983-009, -010
Trichloroethylene was detected in sample ID: MW-983-009, -010
Perchlorate was detected in sample ID: MW-983-009, -010

TICS:
An unknown compound at RT=3.93 was detected in sample ID: MW-983-006

a Division of Montgomery Watson Americas, Inc.

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

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

Quality Environmental Analysis

Method Variances:

Sample ID: MW-983-010 is not associated with an MS/MSD for Arsenic, Chromium, Lead, or Iron analyses. The other samples submitted with this sample were prepared as part of a previous batch of 20 samples. This sample was the final sample delivered for this round and a designated MS/MSD was not available to associate with the sample. The supervisor of the group defaulted to MWL's standard approach in this situation of preparing duplicate LCSs for precision and accuracy information. The QAPP for the JPL project does not specify this action as an option. I initiated a QIR upon my review and discovery of this situation. Corrective Actions have been initiated and are scheduled to continue until all parties are aware of the procedures to follow in the event a situation arises that is not consistent with the QAPP requirements for this project.

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 818-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 46131
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 08/13/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
980813094	MW-983-114			Water			08/13/98
		@EBASVOA					
980813095	MW-983-115			Water			08/13/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	CR-VI	
		CLO4					
980813096	MW-983-006			Water			08/13/98
		@EBASVOA	CR-MS	AS-GF	PB-MS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
980813097	MW-983-007			Water			08/13/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980813098	MW-983-008			Water			08/13/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980813099	MW-983-009			Water			08/13/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	
980813100	MW-983-010			Water			08/13/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-MS	AS-GF	CR-MS	

Test Acronym Description

Test Acronym	Description

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0003
Group#: 46131
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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

NUMBER 2689

46131

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 0251

PROJECT ADDRESS: 4800 Oak Grove Blvd. Pasadena, CA

SAMPLER (Name): Thomas Blaney / Dave Dirkin

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Watson Laboratories

REPORTS TO BE SENT TO: Mark Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs 5242	Total Cr As, Pb (6010 A/O2)	Anions + TDS	Cr^{+6}	ClO_4	QA/QC For Cr^{+6}	MS For VOCs	MSD For VOCs	MS/MSD For metals
MW-983-114	0815	8/13/98	2	40ml	X			X								
MW-983-115	0825	↓	5	2x40 1x250 2x125	X			X	X		X	X				
MW-983-006	0910	↓	6	2x40 2x500 2x125	X			X	X	X	X	X	X			X
MW-983-007	1020	↓	6	2x40 1x250 1x500 2x125	X			X	X	X	X	X				
MW-983-006 MS	0910	↓	2	40ml	X									X		
MW-983-006 MSD	0910	↓	2	40ml	X										X	
MW-983-008	1320	↓	6	2x40 1x250 1x500 2x125	X			X	X	X	X	X				
MW-983-009	1415	↓	6	2x40 1x250 1x500 2x125	X			X	X	X	X	X				
MW-983-010	1450	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/13/98				
COMPANY: Foster Wheeler	TIME	COMPANY	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Research Date Received: 8/13/98

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 8/13/98

by (print) Vijay Mepani (sign) Vijay Mepani

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

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2
   If Yes, enter the following: seal date: 8/13/98, seal name: DD

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

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

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

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

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

8. Have designated person(s) initial to acknowledge receipt: VKM (date) 8/13/98

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

9. Describe packing:

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

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

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

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

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

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

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

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

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

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR46131

		Result	MDL	UNITS
Analyzed	980813094 MW-983-114			
08/17/98	Dichloromethane	1.5	.500	UGL
Analyzed	980813095 MW-983-115			
08/17/98	Dichloromethane	1.7	.500	UGL
Analyzed	980813096 MW-983-006			
08/17/98	Dichloromethane	1.7	.500	UGL
08/21/98	Alkalinity	190	2.000	MGL
08/27/98	Anion Sum	5.42	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated	217	.001	MGL
08/27/98	Calcium, Total, ICAP	5.4	1.000	MGL
08/27/98	Carbonate as CO3, Calculated	35.4	.001	MGL
08/27/98	Cation Sum	5.69	.001	MEQL
08/15/98	Chloride	33	1.000	MGL
08/15/98	Lab pH	9.4	.001	UNIT
08/27/98	Magnesium, Total, ICAP	1.5	.100	MGL
08/27/98	Potassium, Total, ICAP	3.1	1.000	MGL
08/27/98	Sodium, Total, ICAP	120	1.000	MGL
08/18/98	Specific Conductance	535	4.000	UMHO
08/15/98	Sulfate	33	2.000	MGL
08/19/98	Total Dissolved Solid (TDS)	340	10.000	MGL
Analyzed	980813097 MW-983-007			
08/17/98	Dichloromethane	2.3	.500	UGL
08/21/98	Alkalinity	130	2.000	MGL
08/27/98	Anion Sum	3.55	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated	158	.001	MGL
08/27/98	Calcium, Total, ICAP	33	1.000	MGL
08/27/98	Carbonate as CO3, Calculated	0.648	.001	MGL
08/27/98	Cation Sum	3.95	.001	MEQL
08/15/98	Chloride	14	1.000	MGL
09/02/98	Iron, Total, ICAP/MS	130	******	UGL
08/15/98	Lab pH	7.8	.001	UNIT
08/27/98	Magnesium, Total, ICAP	12	.100	MGL
08/15/98	Nitrate-N by IC	6	.100	MGL
08/27/98	Potassium, Total, ICAP	2.1	1.000	MGL
08/27/98	Sodium, Total, ICAP	29	1.000	MGL
08/18/98	Specific Conductance	345	4.000	UMHO
08/15/98	Sulfate	6.2	2.000	MGL
08/19/98	Total Dissolved Solid (TDS)	220	10.000	MGL
Analyzed	980813098 MW-983-008			
08/17/98	Dichloromethane	1.7	.500	UGL
08/21/98	Alkalinity	135	2.000	MGL
08/27/98	Anion Sum	4.31	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated	164	.001	MGL
08/27/98	Calcium, Total, ICAP	45	1.000	MGL
08/27/98	Carbonate as CO3, Calculated	0.534	.001	MGL
08/27/98	Cation Sum	4.80	.001	MEQL
08/15/98	Chloride	24	1.000	MGL

09/02/98	Iron, Total, ICAP/MS	600	******	UGL
08/15/98	Lab pH	7.7	.001	UNIT
08/27/98	Magnesium, Total, ICAP	15	.100	MGL
08/15/98	Nitrate-N by IC	9.3	.100	MGL
08/27/98	Potassium, Total, ICAP	2.3	1.000	MGL
08/27/98	Sodium, Total, ICAP	29	1.000	MGL
08/18/98	Specific Conductance	425	4.000	UMHO
08/15/98	Sulfate	13	2.000	MGL
08/19/98	Total Dissolved Solid (TDS)	260	10.000	MGL

Analyzed 980813099 MW-983-009

08/17/98	1,1-Dichloroethane	0.8	.500	UGL
08/17/98	Chloroform (Trichloromethane)	0.7	.500	UGL
08/17/98	Dichloromethane	1.8	.500	UGL
08/17/98	Tetrachloroethylene (PCE)	1.0	.500	UGL
08/17/98	Trichloroethylene (TCE)	1.1	.500	UGL
08/21/98	Alkalinity	215	2.000	MGL
08/27/98	Anion Sum	12.2	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated	262	.001	MGL
08/27/98	Calcium, Total, ICAP	140	1.000	MGL
08/27/98	Carbonate as CO3, Calculated	0.270	.001	MGL
08/27/98	Cation Sum	12.7	.001	MEQL
08/15/98	Chloride	115	2.000	MGL
09/02/98	Iron, Total, ICAP/MS	460	******	UGL
08/15/98	Lab pH	7.2	.001	UNIT
08/27/98	Magnesium, Total, ICAP	49	.100	MGL
08/15/98	Nitrate-N by IC	15	.200	MGL
08/21/98	Perchlorate	7.8	4.000	UGL
08/27/98	Potassium, Total, ICAP	4.1	1.000	MGL
08/27/98	Sodium, Total, ICAP	37	1.000	MGL
08/18/98	Specific Conductance	1090	4.000	UMHO
08/15/98	Sulfate	170	4.000	MGL
08/19/98	Total Dissolved Solid (TDS)	640	10.000	MGL

Analyzed 980813100 MW-983-010

08/17/98	Carbon Tetrachloride	0.5	.500	UGL
08/17/98	Chloroform (Trichloromethane)	1.0	.500	UGL
08/17/98	Dichloromethane	2.2	.500	UGL
08/17/98	Trichloroethylene (TCE)	9.2	.500	UGL
08/21/98	Alkalinity	100	2.000	MGL
08/27/98	Anion Sum	4.81	.001	MEQL
08/27/98	Bicarbonate as HCO3,calculated	122	.001	MGL
08/27/98	Calcium, Total, ICAP	65	1.000	MGL
08/27/98	Carbonate as CO3, Calculated	0.079	.001	MGL
08/27/98	Cation Sum	6.47	.001	MEQL
08/15/98	Chloride	33	1.000	MGL
09/02/98	Iron, Total, ICAP/MS	1000	******	UGL
08/15/98	Lab pH	7.0	.001	UNIT
08/27/98	Magnesium, Total, ICAP	24	.100	MGL
08/15/98	Nitrate-N by IC	5.3	.100	MGL
08/21/98	Perchlorate	19	4.000	UGL
08/27/98	Potassium, Total, ICAP	2.6	1.000	MGL
08/27/98	Sodium, Total, ICAP	27	1.000	MGL
08/18/98	Specific Conductance	565	4.000	UMHO
08/15/98	Sulfate	72	2.000	MGL
08/19/98	Total Dissolved Solid (TDS)	370	10.000	MGL

QUALITY INVESTIGATION REPORT

QIR No. ~~98~~ MET-98-09

Analysis Date: See below

Analysis: AS-GF/Cr-MS/Fe-MS/Pb-MS

Extraction Date: See ~~attach~~ below

Matrix:

Analyst: JPS/dtn/BFE

Instrument ID:

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
980813100	Enserch		preparation Date	8/14/98	
AS-GF	Analysis Date	9/3/98	↓	↓	
Cr-MS	Analysis Date	9/2/98			
Fe-MS	Analysis Date	9/2/98			
Pb-MS	Analysis Date	9/11/98			

Brief Description: (include reason for non-compliance)

Due to insufficient sample, the preparation batch only included a Method Blank and TWO LCS(S).
The Metals Laboratory was able to prepare "ALL other Enserch Project Samples" as batches of 20 or less, using one of the ~~project~~ Enserch samples for Matrix Spike and Matrix duplicate Spike analysis.

Action Taken: 9/16 PM discussed procedure do follow when ~~only~~ no designated MS/MSD is provided.
1. Notify PM - Immediately
2. PM notify Client of options - (A) Choose one of the samples in the ~~prov~~ batch. (B) Client provide additional sample
3. Client designate (A) which sample or (B) provide additional sample

Impact on Data Quality: Duplicate LCS(S) to be used for Accuracy and ~~Precession~~ Precision measurement.

Does not meet QAPP Requirements of MS/MSD per 20 samples 200.8
Does not meet Audit Requirement of MSD or MD (as appropriate to method 5% of the time - No Nash-designated duplicate provided for this batch.

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

Other: → pg 7, Audit Report dated 9/97 for audit ~~conducted of~~ DES 9/16

Annotation:

Client Contact: M. Culler 9/16/98 - no ~~recourse~~ recourse at this time ~~due~~ due to lateness of Report. Report & annotate DES 9/16 DES 9/16

Extraction: G Galoustian for Gilbert Ramirez Date: 9/16/98

Analyst: Joe Shaffer DAL for Bernadette Date: 9/16, 9/16, 9/16

Group Leader: G Galoustian Date: 9/16/98

QA Coordinator: Nilda Cop Date: 9/16/98

Project Manager: [signature] Frank Date: 9/16/98

PROPERTY OF MONTGOMERY WATSON LABORATORIES

TABLE 7-1 (REVISED)

ANALYTICAL INSTRUMENT QA/QC PERFORMANCE CRITERIA
(Continued)

Method	SW-846 Method 7000 Series Trace Metal by Flame and GFAA	Method 200.8 Trace Elements by ICPMS	GC/FPD Tributyltin in Groundwater
QC Check Standards	Verify calibration with an independent check standard. %R = 90-110	Verify calibration quarterly with an independent check standard. %R = 90-110	None available
Initial Calibration	Minimum standard at 3 levels plus a blank.	A daily midpoint standard plus a calibration blank. Run Linearity check standard to verify higher concentration. MRL check to verify lower concentration. MRL = 50-150 %R (midpoint std) = 90-110 Linearity = 90-110	3 points plus a blank
Continuing Calibration	Analyze a mid-level calibration standard or QC check standard after every 10 samples. %R = 80-120	Analyze a mid-level calibration standard after every 10 samples and at end. %R = 90-110	Mid-point after every 10 samples; %R = 75-125
Surrogate Standards	Not Applicable	Not Applicable	Dipropyl and Tripropyltin; %Rec = 50-150
Accuracy/ Precision	One MS/MSD per batch of samples. Processed at same time. %R = 75-125 %RPD <20	2 Lab Fortified Matrix per batch of 20 samples or fewer. Recommended. %RPD = 20 %R = 70-130	One MS/MSD per batch of 20 or less samples; %R = 50-150; %RPD = 30
Blank	One method blank per batch of samples, one calibration blank with curve.	One method blank per batch of samples. One calibration blank with curve.	One per batch
Other Criteria Method Specific	Test for matrix interference with each matrix using serial dilution (if >25X detection limit) or post-digestion spike.	Turning solution: Run with each batch analyzed. Mass calibration criteria: <0.1 amu from unit mass. Instrument stability, 5X run: <5% RSD. Baseline resolution for Mg and Lead isotopes. Internal standard: IS solution contains Bismuth, Indium, Germanium and Lithium added to each sample, standard and blank. %R = 60-125 of the response in the calibration blank.	Blank Spike one per batch; %R = 50-150
Lab Control Sample (LCS)	One per batch 85-115%	One per batch of samples (20 samples or fewer). %R = 85-115	One per batch %R = 50-150

TABLE 7-1 (REVISED)

ANALYTICAL INSTRUMENT QA/QC PERFORMANCE CRITERIA
(Continued)

Method	EPA-846 Method 8240 Volatile Organics	SW-846 Method 827 Semi-Volatile Organics	EPA Method 200 Series
QC Check Standards	Analyzed a QC check standard with every 20 samples.	Analyze a QC check standard with every 20 samples, or per batch, whichever more frequent.	Verify calibration with an independent check standard. Standard %R = 90-110%
Initial Calibration	Minimum of 5 levels, lowest near but above MDL. % RSD for CCCs < 30 RF for SPCC > 0.30 (0.25 for bromoform)	Minimum of 5 levels, lowest near but above CDL. % RSD for CCCs < 30 RF for SPCC > 0.05	Minimum of 3 levels plus a blank.
Continuing Calibration	Mid-level calibration standard run every 12 hours. RF for SPCCs same as for initial calibrations, RF for CCCs must be < 25% difference from initial calibration.	Mid-level calibration standard run every 12 hours. RF for SPCCs > 0.05 RF of CCCs must be < 30% difference for initial calibration.	Analyze a low level standard daily or every 20 samples, whichever is more frequent. %R = 90-110
Surrogate Standards	4-bromofluorobenzene, 1,2-dichloroethane-d_4, and toluene-d_8 Recovery Limits 85-115%	Nitrobenzene-d_5, 2-fluorophennal, and 2,4,6-tribromophenol. Recovery limits calculated.	Not Applicable
Accuracy/Precision	One MS/MSD per 20 samples.	One MS/MSD per 20 samples as available.	One duplicate sample or MS/MSD per every 10 samples or per set of samples (if sets contain less than 10). %R = 75-125%
Blank	One blank per batch of samples processed together.	One method blank per 20 samples or each extraction batch of samples, whichever is more frequent.	Method blank not specific. However, one blank per batch of sample, one calibration blank with curve.
Other Criteria Method Specific	50 mg bromofluorobenzene (BFB) at the beginning of each 8-hour shift. All ions >10% intensity must be ± 20% of standard ion; sample RT within 3 standard deviation of RT in calibration. Library search must be made for the purpose of tentative identification.	Tune with 50 MG decafluorotriphenyl phosphini (DFTPP) initially and every 12 hours. All ions >10% intensity must be ±20% of standard ions; sample RT within 3 standard deviation of RT in calibration.	For GFAA, verify absence of interference by detailing and spiking each matrix. Use standard addition to compensate for matrix interference.
Lab Control Sample (LCS)		One per batch. Control limits calculated on selected compounds.	One per batch 85-115%.

Audit Recommendation 9/97

- **STANDARD PREPARATIONS**

  There was a repeat write-up for not including equations for calculating final concentrations of standards in the Standard Preparation Notebooks. Although there was no evidence that standards were being prepared improperly, this omission must be corrected immediately.

- **ANALYTICAL INSTRUMENT OPERATIONS**

  Ventilation within the gas chromatography lab needs improvement. Previous data validation summary reports indicate VOC contamination problems have existed. The impact to NASA results was not quantified as part of this audit, but was not considered significant by the NASA-designated data validators. At the time of this audit, work to improve building ventilation at Montgomery was almost complete.

- **SAMPLE EXTRACTION AND ANALYSES PROCEDURES**

  Better tracking of sample IDs when loading the VOC autosampler should be instituted. For all appropriate analyses, including metals, perform analysis of NASA-designated duplicates (MSD or MD as appropriate to the method) at least 5% of the time. *

- **DOCUMENTATION PROCEDURES**

  To ensure that all required elements of information are recorded, the Montgomery Cooler Receipt Form should be filled out when receiving NASA-JPL samples. It is recommended that checking the pH of chemically preserved samples be performed during sample receipt rather than waiting until samples are prepared for analysis.

- **DATA REVIEW PROCEDURES**

  No discrepancies noted.

- **CORRECTIVE ACTION PROCEDURES**

  No discrepancies noted.

- **ANALYST KNOWLEDGE OF PROJECT OBJECTIVES**

  Excellent.

- **LABORATORY AUDIT CHECKLIST**

  Included herewith as Attachment 3.

QUALITY INVESTIGATION REPORT

QIR No. MS-98-027

Analysis Date: 8/17/98

Analysis: 524 (@ EBASVOA)

Extraction Date: —

Matrix: 1

Analyst: COL

Instrument ID: GCMSH

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
980813094	MW-983-114	Foster Wheeler	980813098	MW-983-008	Foster Wheeler
095	-115	↓	099	-009	↓
096	-006		100	-010	
097	-007				

Brief Description: (include reason for non-compliance)

Methylene chloride detected in all samples. LRB loaded at the same time as these samples (0817VH35) has 1.7 ppb of methylene chloride. (Suspect lab. contamination (0817VH18 is an acceptable ~~M.B.~~ COL LRB for this test,

Action Taken: Informed P.M. (Debbie Frank), who advised not to rerun; fill out QIR and annotate report. Lab. Facilities is investigating lab. contamination issue.

Impact on Data Quality:

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

Other:

Annotation:

Client Contact: See QIR re report w/ annotation per Mark Lowe / Tom Blasdy FWER

MDG for Mark Cutler 8/25

Extraction:	—	Date:	—
Analyst:	Cecilia Sei	Date:	8-18-98
Group Leader:	[signature]	Date:	8-21-98
QA Coordinator:	[signature]	Date:	8-25-98
Project Manager:	[signature]	Date:	8/25/98

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QUALITY INVESTIGATION REPORT

QIR No. MS-98-025

Analysis Date: ~~8/12~~ 8/11/98
Analysis: 524
Extraction Date: —
Matrix: 1
Analyst: COL
Instrument ID: GCMSH

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
980805126	MW-983-106	Foster Wheeler	980805130	MW-983-067	Foster Wheeler
127	-066	↓	131	-064	↓
128	-062		127	MW-983-066 MS	
129	-061		127	-066 MSD	

Brief Description: (include reason for non-compliance)

Methylene chloride detected in all samples and LRB (file #9).
Suspect laboratory contamination.

Action Taken: Informed P.M (Debbie Frank) of problem. Debbie advised not to rerun because methylene chloride is not an analyte of interest to Foster Wheeler. Document problem on a QIR. Facilities Dept is investigating the cause of contamination.

Impact on Data Quality:

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

Other:

Annotation: Mark Cutler on Vacation 8/10-24 — in w/ myelin

Client Contact: discussed Laboratory Contamination w/ Mark Lossi 8/3 he indicated it was not an analyte of concern if it is demonstrated to be Lab Contamination. Investigate and correct problem as quickly as possible but ok to Report w/ annotation Des 8/17/98 [illegible] for M. Lossi 8/17

Extraction: Date:
Analyst: [signature] Date: 8/12/98
Group Leader: [signature] Date: 8/12/98
QA Coordinator: [signature] Date: 08/17/98
Project Manager: [signature] Date: 8/17/98

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Report
Comments
#46131

Group Comments

(525.2) Methylene Chloride detected in all samples are suspected to be due to laboratory contamination. See QIR-MS-98-027. GG 08/21/98.
(As-GF,CR-MS,PB-MS,FE-MS) Sample is prepared in its own batch and due to insufficient sample two LCSs and one Method Blank was prepared and analyzed. Please see QIR-MET-98-09. GG 09/16/98.

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON
SEP 14 1998
DEB* Debbie Frank

Report#: 46131
JPL

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Laboratory
Report
#46131

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

Samples Received
13-aug-1998 16:31:01

MW-983-114 (980813094) Sampled on 08/13/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#46131

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	1.5	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(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	98	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-115 (980813095) Sampled on 08/13/98								
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	08/21/98	82742	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/98	82604	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(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	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	1.7	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(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	88	% Rec		

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	98	% Rec		
MW-983-006 (980813096) Sampled on 08/13/98								
	08/21/98	83081	(ML/S2320B)	Alkalinity	190	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	5.42	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	5.4	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	5.69	meq/l	0.0010	1
	08/15/98	82590	(ML/EPA 300)	Chloride	33	mg/l	1.0	1
	08/21/98	82742	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	35.4	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/98	82604	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82613	(ML/S2510B)	Specific Conductance	535	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	217	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	3.1	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	1.5	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	120	mg/l	1.0	1
	08/15/98	82593	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/15/98	82461	(ML/SM 4500H)	Lab pH	9.4	Units	0.0010	1
	08/15/98	82594	(ML/EPA 300.0)	Sulfate	33	mg/l	2.0	1
	08/19/98	82768	(ML/S2540C)	Total Dissolved Solid (TDS)	340	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	1.7	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown (RT=3.93)	3.0	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-983-007 (980813097) Sampled on 08/13/98

	08/21/98	83081	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	3.55	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	33	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	3.95	meq/l	0.0010	1
	08/15/98	82590	(ML/EPA 300)	Chloride	14	mg/l	1.0	1
	08/21/98	82742	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.648	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/98	82604	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82613	(ML/S2510B)	Specific Conductance	345	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	130	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	158	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	2.1	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	12	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	29	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/15/98	82593	(ML/EPA 300.0)	Nitrate-N by IC	6	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/15/98	82461	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	08/15/98	82594	(ML/EPA 300.0)	Sulfate	6.2	mg/l	2.0	1
	08/19/98	82768	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	2.3	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(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	89	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-008 (980813098) Sampled on 08/13/98								
	08/21/98	83081	(ML/S2320B)	Alkalinity	135	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	4.31	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	45	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	4.80	meq/l	0.0010	1
	08/15/98	82590	(ML/EPA 300)	Chloride	24	mg/l	1.0	1
	08/21/98	82742	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.534	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/98	82604	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82613	(ML/S2510B)	Specific Conductance	425	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	600	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	164	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	2.3	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	15	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	29	mg/l	1.0	1
	08/15/98	82593	(ML/EPA 300.0)	Nitrate-N by IC	9.3	mg/l	0.10	1
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/15/98	82461	(ML/SM 4500H)	Lab pH	7.7	Units	0.0010	1
	08/15/98	82594	(ML/EPA 300.0)	Sulfate	13	mg/l	2.0	1
	08/19/98	82768	(ML/S2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	1.7	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(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	105	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-983-009 (980813099) Sampled on 08/13/98

	08/21/98	83081	(ML/S2320B)	Alkalinity	215	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	12.2	meq/l	0.0010	1
08/14/98	08/20/98	82801	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	140	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	12.7	meq/l	0.0010	1
	08/15/98	82590	(ML/EPA 300)	Chloride	115	mg/l	2.0	2
	08/21/98	82742	(MOD/EPA 300)	Perchlorate	7.8	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.270	mg/l	0.0010	1
08/14/98	09/02/98	83410	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/98	82604	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82613	(ML/S2510B)	Specific Conductance	1090	umho/cm	4.0	1
08/14/98	09/02/98	83421	(EPA/ML 200.8)	Iron, Total, ICAP/MS	460	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	262	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	4.1	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	49	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	37	mg/l	1.0	1
	08/15/98	82593	(ML/EPA 300.0)	Nitrate-N by IC	15	mg/l	0.20	2

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
08/14/98	09/10/98	83813	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/15/98	82461	(ML/SM 4500H)	Lab pH	7.2	Units	0.0010	1
	08/15/98	82594	(ML/EPA 300.0)	Sulfate	170	mg/l	4.0	2
	08/19/98	82768	(ML/S2540C)	Total Dissolved Solid (TDS)	640	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	0.8	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.7	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	1.8	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.0	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.1	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(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	100	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-983-010 (980813100) Sampled on 08/13/98								
	08/21/98	83081	(ML/S2320B)	Alkalinity	100	mg/l	2.0	1
	08/27/98		(ML/SM1040)	Anion Sum	4.81	meq/l	0.0010	1
08/14/98	09/03/98	83453	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
08/27/98	08/27/98	83041	(EPA/ML 200.7)	Calcium, Total, ICAP	65	mg/l	1.0	1
	08/27/98		(ML/SM1040)	Cation Sum	6.47	meq/l	0.0010	1
	08/15/98	82590	(ML/EPA 300)	Chloride	33	mg/l	1.0	1
	08/21/98	82742	(MOD/EPA 300)	Perchlorate	19	ug/l	4.0	1
	08/27/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.079	mg/l	0.0010	1
08/14/98	09/02/98	83411	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	08/13/98	82604	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	08/18/98	82613	(ML/S2510B)	Specific Conductance	565	umho/cm	4.0	1
08/14/98	09/02/98	83423	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1000	ug/l	100	1
	08/27/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	122	mg/l	0.0010	1
08/27/98	08/27/98	83042	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
08/27/98	08/27/98	83043	(ML/EPA 200.7)	Magnesium, Total, ICAP	24	mg/l	0.10	1
08/27/98	08/27/98	83044	(ML/EPA 200.7)	Sodium, Total, ICAP	27	mg/l	1.0	1
	08/15/98	82593	(ML/EPA 300.0)	Nitrate-N by IC	5.3	mg/l	0.10	1
08/14/98	09/11/98	83828	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	08/15/98	82461	(ML/SM 4500H)	Lab pH	7.0	Units	0.0010	1
	08/15/98	82594	(ML/EPA 300.0)	Sulfate	72	mg/l	2.0	1
	08/19/98	82768	(ML/S2540C)	Total Dissolved Solid (TDS)	370	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	08/17/98	82656	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	08/17/98	82656	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Carbon Tetrachloride	0.5	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichloromethane	2.2	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	08/17/98	82656	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichloroethylene (TCE)	9.2	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	08/17/98	82656	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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QC Batch #82461 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	0813100		(0.00 - 0.00)	

QC Batch #82590 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0813097		(0.00 - 0.00)	
LCS1	Chloride	25	24.9	99.6	(90.00 - 110.00)	
LCS2	Chloride	25	25	100.0	(90.00 - 110.00)	0.40
MBLK	Chloride	ND				
MS	Chloride	25	26.5	106.0	(80.00 - 120.00)	
MSD	Chloride	25	26.4	105.6	(80.00 - 120.00)	0.38

QC Batch #82593 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0813097		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.51	100.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.53	101.2	(90.00 - 110.00)	0.79
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.29	91.6	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.29	91.6	(80.00 - 120.00)	0.00

QC Batch #82594 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0813097		(0.00 - 0.00)	
LCS1	Sulfate	50	49.6	99.2	(90.00 - 110.00)	
LCS2	Sulfate	50	49.7	99.4	(90.00 - 110.00)	0.20
MBLK	Sulfate	ND				
MS	Sulfate	50	52.4	104.8	(80.00 - 120.00)	
MSD	Sulfate	50	52.4	104.8	(80.00 - 120.00)	0.00

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

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QC Batch #82604 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0813096		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(80.00 - 120.00)	0.00

QC Batch #82613 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0813235		(0.00 - 0.00)	

QC Batch #82656 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.65	95.6	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.84	98.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	8.17	102.1	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.67	95.9	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.49	93.6	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.76	97.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.61	95.1	(70.00 - 130.00)	2.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				

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MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.20	102.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.83	97.9	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.00	100.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.08	101.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.10	101.2	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	0805127		(0.00 - 0.00)	
LCS1	Benzene	8	8.49	106.1	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.53	106.6	(70.00 - 130.00)	
MSD	Benzene	8	8.33	104.1	(70.00 - 130.00)	2.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.23	102.9	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.37	104.6	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.76	97.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.18	102.2	(70.00 - 130.00)	5.3
LCS1	Carbon Tetrachloride	8	7.98	99.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.39	92.4	(70.00 - 130.00)	
MBLK	Bromoform	ND				

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LCS1	Chloroform (Trichloromethane)	8	7.92	99.0	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Bromochloromethane	ND			
MBLK	Chloroethane	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	8	7.89	98.6	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	8	7.94	99.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	8	7.59	94.9	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	8	8.29	103.6	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	4	3.80	95.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	16	16.8	105.0	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	8	8.57	107.1	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	8	8.18	102.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	8	7.95	99.4	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	8	8.47	105.9	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	1,2-dichloroethane-d4	100	100	100.0	(80.00 - 120.00)
MBLK	1,2-dichloroethane-d4	100	108	108.0	

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MS	1,2-dichloroethane-d4	100	97	97.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 120.00)	1.0
LCS1	Toluene-d8	100	99	99.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	98	98.0		
MS	Toluene-d8	100	97	97.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	97	97.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	98	98.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	98	98.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	100	100.0	(80.00 - 120.00)	2.0
LCS1	trans-1,2-Dichloroethylene	8	7.79	97.4	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.80	97.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.76	109.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.77	109.6	(70.00 - 130.00)	0.11
LCS1	Trichlorotrifluoroethane(Freon	4	4.05	101.2	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.03	100.4	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.29	103.6	(70.00 - 130.00)	
MSD	Toluene	8	8.20	102.5	(70.00 - 130.00)	1.1
LCS1	Vinyl chloride (VC)	4	4.34	108.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #82742 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0813097		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.6	93.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	3.2
MBLK	Perchlorate	ND				
MS	Perchlorate	20	22.1	110.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.7	108.5	(75.00 - 125.00)	

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QC Batch #82768 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	0813107		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	670	95.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #82801 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	1.5
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	4.7

QC Batch #83041 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Total, ICAP	50	52.3	104.6	(90.00 - 110.00)	1.7
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.5	105.0	(80.00 - 120.00)	
MSD	Calcium, Total, ICAP	50	52.2	104.4	(80.00 - 120.00)	0.57

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818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #83042 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.0	105.0	(80.00 - 110.00)	0.00
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	22.0	110.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	22.1	110.5	(80.00 - 120.00)	0.45

QC Batch #83043 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.0	105.0	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	0.94

QC Batch #83044 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0806086		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.6	103.2	(80.00 - 120.00)	
LCS2	Sodium, Total, ICAP	50	51.8	103.6	(80.00 - 120.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	52.7	105.4	(80.00 - 120.00)	
MSD	Sodium, Total, ICAP	50	53.3	106.6	(80.00 - 120.00)	1.1

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

MONTGOMERY WATSON LABORATORIES

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

Foster Wheeler Environmental, Inc
(continued)

QC Batch #83081 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0807128		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	93.9	97.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	93.8	97.5	(90.00 - 110.00)	0.11
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	85.0	88.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	85.0	88.4	(80.00 - 120.00)	0.00

QC Batch #83410 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95.8	95.8	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	94.2	94.2	(85.00 - 115.00)	1.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	97.1	97.1	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	89.6	89.6	(70.00 - 130.00)	8.0

QC Batch #83411 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	100	100.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99.6	99.6	(85.00 - 115.00)	0.40
MBLK	Chromium, Total, ICAP/MS	ND				

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

MONTGOMERY WATSON LABORATORIES

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

Foster Wheeler Environmental, Inc
(continued)

QC Batch #83421 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	515	103.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	1.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	517	103.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	510	102.0	(70.00 - 130.00)	1.4

QC Batch #83423 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	535	107.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	516	103.2	(85.00 - 115.00)	3.6
MBLK	Iron, Total, ICAP/MS	ND				

QC Batch #83453 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0199	99.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0204	102.0	(85.00 - 115.00)	2.5
MBLK	Arsenic, Total, GF	ND				

QC Batch #83813 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	0810080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.7	98.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	20.1	100.5	(70.00 - 130.00)	

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

MONTGOMERY WATSON LABORATORIES

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

Foster Wheeler Environmental, Inc
(continued)

MSD	Lead, Total, ICAP/MS	20	21.3	106.5	(70.00 - 130.00)	5.8

QC Batch #83828 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.5	102.5	(85.00 - 115.00)	3.0
MBLK	Lead, Total, ICAP/MS	ND				

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

NUMBER 2659

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE DR., PASADENA, CA

SAMPLER (Name): J. BRANNER

SAMPLER (Signature): J. B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total Cr, As, Pb Metals (6010/7060)	Major Anion & TDS	Cr^{6+}	ClO_4^-	MS VOCs	MSD VOCs	MS/MSD for Metals	QC Foil Cr^{6+}	LOCATION	DEPTH	QC CODE
MW-983-080	0830	7/17/95	2	2x40ml	X			X									TRIP BLANK	7/17/95	
MW-983-081	0845	↓	5	2x40ml 2x125ml 1x250m	X			X	X		X	X					EQUIP. BLANK	7/17/95	
MW-983-031	1010	↓	6	2x40ml 2x500ml 2x125ml	X			X	X	X	X	X			X	X	MW-18,	SCREEN	5
MW-983-031MS	1010	↓	2	2x40ml	X								X				MW-18-5	MS (VOCs)	
MW-983-031MSD	1010	↓	2	2x40ml	X									X			MW-18-5	MSD (VOCs)	
MW-983-032	1130	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					MW-18,	SCREEN	4
MW-983-033	1240	↓	6	↓	X			X	X	X	X	X					MW-18,	SCREEN	3
MW-983-034	1335	↓	6	↓	X			X	X	X	X	X					MW-18,	SCREEN	2
MW-983-035	1430	↓	6	↓	X			X	X	X	X	X					MW-18,	SCREEN	1

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

ALL SAMPLES DELIVERED TO LABS AT 3C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
J. B	7-17-95	[signature]			
COMPANY: FWENC	TIME: 15:20	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2660

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572-0251

PROJECT ADDRESS: 4800 Oak Grove Blvd. Pasadena, CA

SAMPLER (Name): Thomas Blanky

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Laboratories

REPORTS TO BE SENT TO: Mark Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOC 524.2	Total Cr, As, Pb (6010/7060)	Anions + TDS	Cr^{+6}	ClO_4	QC for Cr^{+6}					LOCATION	DEPTH	QC CODE
MW-983-082	0820	7/20/98	2	40 ml	X			X										Trip Blank (7/20/98)		
MW-983-083	0825	↓	5	2x40, 1x250, 2x125	X			X	X		X	X						EQ Blank (7/20/98)		
MW-983-036	1025		6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X	X					MW-17	Screen	#5
MW-983-037	1145		6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X						MW-17	Screen	#4
MW-983-039	1250		6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X						MW-17	Screen	#2
MW-983-040	1345	↓	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X						MW-17	Screen	#1

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

SAMPLING COMMENTS

Samples Received @ Lab @ 4°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7-20-98	[signature]			
COMPANY: FWENC	TIME: 3:00 Pm	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2661

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE DR., PASADENA, CA

SAMPLER (Name): J. BRENNER

SAMPLER (Signature): J. B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL As, Cr, & Pb (6010/7000)	MAJOR ANIONS & TDS	HEX Cr	ClO_4^-	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr	LOCATION	DEPTH	QC CODE
MW-983-024	0800	7/21/98	2	2x40ml	X			X									TRIP BLANK	7/21/98	
MW-983-025	0815	↓	5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					EQUIP. BLANK	7/21/98	
MW-983-026	0850	↓	6	2x40ml 2x500ml 2x125ml	X			X	X	X	X	X			X		MW-19, SCREEN #5	(MS/MSD MAT.)	
MW-983-026MS	0850	↓	2	2x40ml	X								X				MW-19-5	(MS FOR	VOCs)
MW-983-026MSD	0850	↓	2	2x40ml	X									X			MW-19-5	(MSD FOR	VOCs)
MW-983-027	0950	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					MW-19, SCREEN	#4	
MW-983-028	1100	↓	6	↓	X			X	X	X	X	X				X	MW-19, SCREEN	#3	
MW-983-029	1150	↓	6	↓	X			X	X	X	X	X					MW-19, SCREEN	#2	
MW-983-030	1240	↓	6	↓	X			X	X	X	X	X					MW-19, SCREEN	#1	

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

ALL SAMPLES DELIVERED TO LAB AT 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/21/98	[signature]			
COMPANY: FWENC	TIME: 1525	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2663

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 0251

PROJECT ADDRESS: 4800 OAK GROVE BLVD. PASADENA, CA.

SAMPLER (Name): THOMAS BLANCY

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Laboratories

REPORTS TO BE SENT TO: MARK Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs 524.2	metals (total Cr, As, Pb (6010/7000))	Anions + TDS	Cr+6	ClO4	QC for Cr+6				
MW-983-086	0810	7/22/98	2		X			X									
MW-983-087	0815	↓	5		X			X	X		X	X					
MW-983-021	0910	↓	6		X			X	X	X	X	X	X				
MW-983-022	1045	↓	6		X			X	X	X	X	X					
MW-983-023	1155	↓	6		X			X	X	X	X	X					
MW-983-024	1255	↓	6		X			X	X	X	X	X					
MW-983-025	1345	↓	6		X			X	X	X	X	X					

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LOCATION	DEPTH	QC CODE
TRIP BLANK		
EQ BLANK		
MW-20	Screen	#5
MW-20	Screen	#4
MW-20	Screen	#3
MW-20	Screen	#2
MW-20	Screen	#1

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

SAMPLING COMMENTS

Samples Delivered to LAB @ 4°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7-22-98	[signature]			
COMPANY: FWENC	TIME: 14:52	COMPANY: M.W.	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2664

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.025

PROJECT ADDRESS: 4800 OAK GROVE DR., PASADENA, CA

SAMPLER (Name): J. BRENNER

SAMPLER (Signature): J. B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (5242)	TOTAL As, Cr, Pb & CATIONS (6010/7000)	MAJOR ANIONS & TDS	HEX. Cr	PERCHLORATE (ClO_4^-)	MS FOR VOCs	MSD FOR VOCs	MS/MSD METALS	GC FOR Cr^{6+}	LOCATION	DEPTH	QC CODE
MW-983-099	0810	7/23/98	2	2x40ml	X			X									TRIP BLANK 7/23/98		
MW-983-059	0815		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					EQUIP. BLANK 7/23/98		
MW-983-016	0955		6	2x40ml 2x500ml 2x125ml	X			X	X	X	X	X			X	X	MW-21, SCREEN # 5		
MW-983-016MS	0955		2	2x40ml	X								X				MW-21-5 MS FOR VOCs		
MW-983-016MSD	0955		2	2x40ml	X									X			MW-21-5 MSD FOR VOCs		
MW-983-017	1045		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					MW-21, SCREEN # 4		
MW-983-018	1130		6		X			X	X	X	X	X					MW-21, SCREEN # 3		
MW-983-019	1215		6		X			X	X	X	X	X					MW-21, SCREEN # 2		
MW-983-020	1300		6		X			X	X	X	X	X					MW-21, SCREEN # 1		

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS: LEVEL IV QA/QC

SAMPLING COMMENTS: ALL SAMPLES DELIVERED TO LAB AT 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7-23-98	[signature]			
COMPANY: FWENC	TIME: 15:10	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2690

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572 0251

PROJECT ADDRESS: 4800 Oak Grove Blvd. Pasadena, CA.

SAMPLER (Name): Thomas Blaney

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Laboratories

REPORTS TO BE SENT TO: Mark Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Temp, pH, TS (Cl10/7200)	Anions + TDS	Cr^tot	Perchlorate	MS For VOCs	MSD For VOCs	MS/MSD for metals	QC For Cr^tot	LOCATION	DEPTH	QC CODE
MW-983-090	0810	7/24/96	2	40ml	X			X									TRIP BLANK		
MW-983-091	0815	↓	5	2x40, 1x250 2x125	X			X	X		X	X					EQ BLANK		
MW-983-043	0900	↓	6	2x40, 1x500 1x500, 2x125	X			X	X	X	X	X			X	X	MW-14	Screen	#5
MW-983-043 MS	0900	↓	2	40ml	X								X				MS @ MW-14	Screen	#5
MW-983-043 MSD	0900	↓	2	40ml	X									X			MSD @ MW-14	Screen	#5
MW-983-044	1000	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X					MW-14	Screen	#4
MW-983-045	1100	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X					MW-14	Screen	#3
MW-983-046	1155	↓	6	2x40, 1x250 2x125, 1x500	X			X	X	X	X	X					MW-14	Screen	#2
MW-983-047	1420	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X					MW-14	Screen	#1

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

SAMPLING COMMENTS

Samples delivered to lab @ 4°C.

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7-24-96	[signature]			
COMPANY: FWENC	TIME: 1515	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2674

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572-0250-0010

PROJECT ADDRESS: 4800 OAK GROVE DR., PASADENA, CA

SAMPLER (Name): David Dorkin

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Watson

REPORTS TO BE SENT TO: MARK CUTLER @ FOSTER WHEELER COSTA MESA

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

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

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total Cr As Pb metals (6010/7000)	Anions & TDS	Cr+6	CLO4					LOCATION	DEPTH	QC CODE
MW-983-092	0800	7/27/98	2	2x 40 mL	X			X									TRIP BLANK		
MW-983-093	0810	7/27/98	5	2x 40 mL, 1x 250, 1x 125, 1x 125	X			X	X		X	X					EQ. BLANK		
MW-983-074	1000	7/27/98	6	2x 40, 1x 250, 1x 500, 2x 125	X			X	X	X	X	X					MW-3; SCREEN 5		
MW-983-075	1140	7/27/98	6	2x 40, 1x 250, 1x 500, 2x 125	X			X	X	X	X	X					MW-3; SCREEN 4		(QC for 076)
MW-983-076	1330	7/27/98	6	2x 40, 1x 250, 1x 500, 2x 125	X			X	X	X	X	X					MW-3; SCREEN 3		
MW-983-077	1440	7/27/98	6	2x 40, 1x 250, 1x 500, 2x 125	X			X	X	X	X	X					MW-3; SCREEN 2		
MW-983-078	1540	7/27/98	6	2x 40, 1x 250, 1x 500, 2x 125	X			X	X	X	X	X					MW-3; SCREEN 1		
END																			

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

Samples Received @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7-27-98	[signature]			
COMPANY: FOSTER WHEELER	TIME: 16:55	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2671

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572-0250-0000

PROJECT ADDRESS: 4800 OAK GROVE DRIVE, PASADENA, CA

SAMPLER (Name): David Dirkin

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Watson

REPORTS TO BE SENT TO: Mark Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total As, Cr, Pb metals (6010/7000)	Anions + TDS	Cr^{+6} (Hex Chrome)	ClO_4	MS for VOCs	MSD for VOCs	MS/MSD for metals	QC for Cr^{+6}	LOCATION	DEPTH	QC CODE
MW-983-094	0800	7/28/98	2	2x40 mL	X			X									TRIP BLANK		
MW-983-095	0805	7/28/98	5	2x40mL, 1x250, 2x125	X			X	X		X	X					EQ BLANK		
MW-983-056	0905	7/28/98	6	2x40, 1x500, 1x250, 2x125	X			X	X	X	X	X			X		MW-11; SCREEN 5		MS/MSD for metals
MW-938-056MS	0905	7/28/98	2	2x40mL	X								X				MS FOR VOCs		
MW-938-056MSD	0905	7/28/98	2	2x40mL	X									X			MSD FOR VOCs		
MW-938-057	1055	7/28/98	6	2x40, 1x500, 1x250, 2x125	X			X	X	X	X	X				X	MW-11; SCREEN 4		
MW-938-058	1210	7/28/98	6	2x40, 1x500, 1x250, 2x125	X			X	X	X	X	X					MW-11; SCREEN 3		
MW-938-059	1305 ~~1350~~	7/28/98	6	2x40, 1x500, 1x250, 2x125	X			X	X	X	X	X					MW-11, SCREEN 2		
MW-983-060	1420	7/28/98	6	2x40, 1x500, 1x250, 2x125	X			X	X	X	X	X					MW-11; SCREEN 1		
END																			

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS: LEVEL IV QA/QC

SAMPLING COMMENTS: SAMPLES RECEIVED AT 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7-28-98	[signature]			
COMPANY: FOSTER WHEELER	TIME: 15:45	COMPANY: MWH	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2668

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 15720250.--.-

PROJECT ADDRESS: 4800 OAK GROVE PASADENA CA

SAMPLER (Name): TBANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

TIME REQUIRED: NORMAL ☑ ____ DAYS RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	ClO4-									LOCATION	DEPTH	QC CODE
HW-983-098	1130	7/29/98	4	3x40ml, 1x125ml	✓			X	X									PE SAMPLES		

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV - QA/QC

SAMPLING COMMENTS

SAMPLES DELIVERED AT 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/29/98	[signature]			
COMPANY: FWENC	TIME: 1530	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2665

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE PASADENA CA

SAMPLER (Name): T BLANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	1,4-DIOXANE	NDMA	LOCATION	DEPTH	QC CODE
MW-983-038	0935	7/29/98	2	2x1L	X			X	X	MW-17	-3	
MW-983-005	1200	7/29/98	2	2x1L	X			X	X	MW-24	-1	
MW-983-072	1345	7/29/98	2	2x1L	X			X	X	MW-4	-2	

LABORATORY INSTRUCTIONS/COMMENTS: LEVEL IV QA/QC

SAMPLING COMMENTS: SAMPLES DELIVERED @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/29/98	[signature]			
COMPANY: FWENC	TIME: 1530	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2669

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE PASADENA CA

SAMPLER (Name): T BLANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO:

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

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

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL Cr, As, Pb, METALS (6010/7000)	ANIONS & TDS	Cr 6+	ClO_4^-	QC FOR Cr 6+					LOCATION	DEPTH	QC CODE
MW-983-096	0830	7/29/98	2	2x40ml	X			X										TRIP BLANK		
MW-983-097	0845	7/29/98	5	2x40ml, 1x250ml 2x125ml	X			X	X		X	X						EQUIP BLANK		
MW-983-038	0935	7/29/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X						MW-17-3		
MW-983-005	1200	7/29/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X	X					MW-24-1 & QA/QC FOR Cr 6+		
MW-983072	1345	7/29/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X						MW-4-2		
MW-983-071	1445	7/29/98	5	2x40ml, 1x250ml, 2x125ml	X			X	X		X	X						MW-4-2DUP		

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

SAMPLES DELIVERED @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/29/98	[signature]			
COMPANY: FWEC	TIME: 1530	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2666

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0250.0000

PROJECT ADDRESS: 4800 OAK GROVE DRIVE, PASADENA, CA

SAMPLER (Name): Tom Blaney

SAMPLER (Signature): [signature]

LABORATORY: Montgomery Watson

REPORTS TO BE SENT TO: Mark Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total Cr, As, Pb metals (6010/7000)	Anions & TDS	Cr+6	CLO4	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr+6	LOCATION	DEPTH	QC CODE
MW-983-099	0820	7/30/98	2	2x40 ml	X			X									TRIP BLANK		
MW-983-100	0830	7/30/98	3	2x40, 1x250, 2x125	X			X	X		X	X					EQ. BLANK		
MW-983-068	0845	7/30/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X				X	MW-4; SCREEN 5		
MW-983-069	1020	7/30/98	6	2x40, 2x50, 2x125	X			X	X	X	X	X			X		MW-4; SCREEN 4		
MW-983-069 MS	1020	7/30/98	2	2x40 ml	X								X				MS FOR VOCs; MW-4 SCREEN 4		
MW-983-069 MSD	1020	7/30/98	2	2x40 ml	X									X			MSD FOR VOCs; MW-4 SCREEN 4		
MW-983-070	1130	7/30/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X					MW-4; SCREEN 3		
MW-983-073	1220	7/30/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X					MW-4; SCREEN 1		
END																			

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS: Level IV QA/QC

SAMPLING COMMENTS: Samples Received at 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/30/98	[signature]			
COMPANY: Fwenc	TIME: 1515	COMPANY: MWlabs	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2675

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE PASADENA CA

SAMPLER (Name): TBLANEY

SAMPLER (Signature):

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	1,4-DIOXANE	NDMA	MS FOR 1,4-DIOX	MSD FOR 1,4-DIOX	MS FOR NDMA	MSD FOR NDMA					LOCATION	DEPTH	QC CODE
MW-983-049	0900	7/31/98	2	2x1L	X			X	X									MW-13		
MW-983-041	1125	7/31/98	2	2x1L	X			X	X									MW-16		
MW983-065	1445	7/31/98	2	2x1L	X			X	X									MW-7		
MW-983-065MS	1445	7/31/98	2	2x1L	X					X		X						MW-7	MS FOR	1,4-DIOXANE NDMA
MW-983-065MSD	1445	7/31/98	2	2x1L	X						X		X					MW-7	MSD FOR	1,4-DIOXANE NDMA

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

samples Delivered @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/31/98	[signature]			
COMPANY: FWEnc	TIME: 1525	COMPANY: M.W.	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2667

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE PASADENA CA

SAMPLER (Name): TBLANEY

SAMPLER (Signature):

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL Cr, As, Pb, Metals (6010/7470)	ANIONS + TDS	Cr 6+	ClO_4^-	QC for Cr 6+					LOCATION	DEPTH	QC CODE
MW-983-101	0745	7/31/98	2	2x40 ml	X			X										TRIP BLANK		
MW-983-049	0900	7/31/98	6	2x40 ml, 1x250 ml, 1x500 ml, 2x125 ml	X			X	X	X	X	X	X					MW-13		
MW-983-048	0910	7/31/98	5	2x40 ml, 1x250 ml, 2x125 ml	X			X	X		X	X						MW-13	Dup	
MW-983-041	1125	7/31/98	6	2x40 ml, 1x250 ml, 1x500 ml, 1x125 ml	X			X	X	X	X	X						MW-16		
MW-983-065	1445	7/31/98	6	2x40 ml, 1x250 ml, 1x500 ml, 2x125 ml	X			X	X	X	X	X						MW-7		
MW-983-200	1448	7/31/98	5	2x40 ml, 1x250 ml, 1x500 ml, 2x125 ml	X			X	X		X	X						Field BLANK		

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

Samples delivered @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	7/31/98	[signature]			
COMPANY: FW Inc	TIME: 1525	COMPANY: M. W	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2677

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250

PROJECT ADDRESS: 4800 OAK GROVE PASADENA

SAMPLER (Name): TBLANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (5247)	Total Cr, As, Pb, Metals (6010/7472)	ANIONS, TDS	Cr 6+	ClO_4^-	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr 6+	LOCATION	DEPTH	QC CODE
MW-983-102	0830	8/3/98	2	2x40ml	X			X									TRIP BLANK		
MW-983-103	0845	8/3/98	5	2x40ml, 1x250ml 2x125ml	X			X	X		X	X					EQUIP BLANK		
MW-983-050	0945	8/3/98	6	2x40ml, 2x500ml 2x125ml	X			X	X	X	X	X			X	X	MW-12-5 + MS/MSD FOR METALS		
MW-983-050MS	0945	8/3/98	2	2x40ml	X								X				MS FOR VOCs		
MW-983-050MSD	0945	8/3/98	2	2x40ml	X									X			MSD FOR VOCs		
MW-983-051	1110	8/3/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X					MW-12-4		
MW-983-052	1205	8/3/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X					MW-12-3		
MW-983-054	1255	8/3/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X					MW-12-2		
MW-983-053	1305	8/3/98	5	2x40ml, 1x250ml 2x125ml	X			X	X		X	X					MW-12-2 DUP		
~~MW-983-055~~		~~8/3/98~~	~~6~~	~~2x40ml, 1x250ml 1x500ml, 2x125ml~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					~~MW-12-1~~		

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

SAMPLES DELIVERED @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/3/98	Vyay Mgani			
COMPANY: FWENC	TIME: 1522	COMPANY: MW labs	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2678

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA

SAMPLER (Name): T BLANCY

SAMPLER (Signature):

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCS (524.2)	TOTAL Cr, As, Pb METALS (6010/7060)	ANIONS + TDS	Cr^{6+}	ClO_4^-	QA/QC FOR Cr^{6+}					LOCATION	DEPTH	QC CODE
MW-983-105	1040	8/4/98	2	2x40 ml	X			X										TRIP BLANK		
MW-983-105	1045	8/4/98	5	2x40 ml, 1x250 ml, 2x125 ml	X			X	X		X	X						EQUIP BLANK		
MW-983-055	1055	8/4/98	6	2x40 ml, 1x250 ml, 1x500 ml, 2x125 ml	X			X	X	X	X	X	X					MW-12-1	QA/QC	FOR Cr^{6+}
MW-983-001	1415	8/4/98	6	2x40 ml, 1x250 ml, 1x500 ml, 2x125 ml	X			X	X	X	X	X						MW-24-5		

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS: LEVEL IV QA/QC

SAMPLING COMMENTS: ALL SAMPLES DELIVERED AT 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/4/98	[signature]			
COMPANY: Fwenc	TIME: 1520	COMPANY: MW	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2683

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE PASADENA

SAMPLER (Name): T BLANEY

SAMPLER (Signature):

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (5242)	TOTAL Cr, As, Fe, METALS (6010/7470)	ANIONS + TDS	Cr 6+	ClO4-	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr 6+	LOCATION	DEPTH	QC CODE
MW-983-106	0745	8/5/98	2	2x40ml	X			X									TRIP BLANK		
MW-983-066	0910	8/5/98	6	2x40ml, 2x500ml 2x125ml	X			X	X	X	X	X				X	MW-6 + MS/MSD FOR METALS	QC FOR Cr 6+	
MW-983-066MS	0910	8/5/98	2	2x40ml	X								X				MS FOR VOCs		
MW-983-066MSD	0910	8/5/98	2	2x40ml	X									X			MSD FOR VOCs		
MW-983-062	1025	8/5/98	6	2x40ml, 1x250ml, 1x500ml, 1x125ml	X			X	X	X	X	X					MW-10		
MW-983-061	1030	8/5/98	5	2x40ml, 1x250ml 2x125ml	X			X	X		X	X					MW-10 DUP		
MW-983-064	1140	8/5/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X					MW-5		
MW-983-063	1405	8/5/98	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X					MW-8		

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

ALL SAMPLES DELIVERED AT 3°.

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/5/98	[signature]			
COMPANY: Fwenc	TIME: 1510	COMPANY: MW	COMPANY	TIME	COMPANY

F-2

FILE COPY

NUMBER 2679

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA

SAMPLER (Name): T BLANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (8240)	TOTAL Cr, As, Pb (METALS)	ANIONS TDS	Cr 6+	ClO_4^-	QC FOR Cr 6+					LOCATION	DEPTH	QC CODE
MW-983-107	0815	8/6/98	2	2x40ml	X			X										TRIP BLANK		
MW-983-003	0910	8/6/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X						MW-9		
MW-983-079	1040	8/6/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X						MW-1		
MW-983-042	1345	8/6/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X	X					MW-15 + QC FOR		Cr 6+

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

ALL SAMPLES DELIVERED @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/6/98	[signature]			
COMPANY: FWENC	TIME: 14:50	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2684

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0251

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA

SAMPLER (Name): J BLANEY

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL Cr, As, Pb METALS (6010, 7022)	ANIONS + TDS	Cr 6+	ClO4	~~MS FOR VOCs~~	~~MSD FOR VOCs~~	~~MS/MSD FOR METALS~~	QC FOR Cr 6+		LOCATION	DEPTH	QC CODE
MW-983-108	0850	8/7/98	2	2x40ml	X			X										TRIP BLANK		
MW-983-109	0900	8/7/98	5	2x40ml, 1x250ml, 2x125ml	X			X	X		X	X						EQUIP BLANK		
MW-983-002	0930	8/7/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X				X		MW-24-4 + QC FOR Cr 6+		
MW-983-003	1130	8/7/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X						MW-24	Screen	#3
MW-983-004	1245	8/7/98	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	X			X	X	X	X	X						MW-24	Screen	#2

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

ALL SAMPLES DELIVERED @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/7/98	[signature]			
COMPANY: FWenc	TIME: 1505	COMPANY: MW	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2685

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250.0000

PROJECT ADDRESS: 4800 OAK GROVE Blvd., PASADENA, CA

SAMPLER (Name): David DIRKIN

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTTER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL METALS Cr, As, Pb (6010/7000)	Cr+6	CLO4	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr+6	ANIONS & TDS	LOCATION	DEPTH	QC CODE
MW-983-110	0730	8/10/98	2	40 mL	X			X									TRIP BLANK		
MW-983-111	0800	8/10/98	5	2x40, 1x250 2x125	X			X	X	X	X						EQ. BLANK		
MW-983-011	0905	8/10/98	6	2x40 1x250 1x500, 2x125	X			X	X	X	X					X	MW-22; SCREEN 5		
MW-983-012	1010	8/10/98	6	2x40, 2x500 2x125	X			X	X	X	X			X	X	X	MW-22; SCREEN 4; QC for Cr+6		
MW-983-012MS	1010	8/10/98	2	40mL	X							X					MS FOR VOCs (MW-22-4)		MS/MSD FOR METALS
MW-983-012MSD	1010	8/10/98	2	40mL	X								X				MSD FOR VOC (MW-22-4)		
MW-983-013	1115	8/10/98	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X					X	MW-22; SCREEN 3		
END																			

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

SAMPLES RECEIVED @ 3° C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8-10-98	[signature]			
COMPANY: FOSTER WHEELER	TIME: 15:03	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2686

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0250.0000

PROJECT ADDRESS: 4800 OAK GROVE Blvd, PASADENA, CA

SAMPLER (Name): David Dirkin

SAMPLER (Signature): [signature]

LABORATORY: MONTGOMERY WATSON

REPORTS TO BE SENT TO: MARK CUTHER

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

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

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL METALS Cr, As + Pb (6010/7000)	Anions + TDS	Cr+6	ALDH	QC for Cr+6				LOCATION	DEPTH	QC CODE
MW-983-112	0930	8/11/98	2	40mL	X			X									TRIP BLANK		
MW-983-113	0945	8/11/98	5	2x40, 1x250, 1x125, 1x125	X			X	X		X	X					EQ. BLANK		
MW-983-014	1020	8/11/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X	X				MW-22;	SCREEN	2; QC for Cr+6
MW-983-015	1255	8/11/98	6	2x40, 1x250, 1x500, 2x125	X			X	X	X	X	X					MW-22;	SCREEN	1
END																			

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

SAMPLING COMMENTS

SAMPLES RECEIVED @ 3°C

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/11/98	[signature]			
COMPANY: FOSTER WHEELER	TIME: 14:15	COMPANY: MWL	COMPANY	TIME	COMPANY

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FILE COPY

NUMBER 2689

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572 0251

PROJECT ADDRESS: 4800 OAK GROVE BLVD. PASADENA, CA

SAMPLER (Name): THOMAS BLANEY / DAVE DIRKIN

SAMPLER (Signature): [signature] / [signature]

LABORATORY: Montgomery WATSON LABORATORIES

REPORTS TO BE SENT TO: MARK CUTLER

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOC's 524.2	Total Cr, As, Pb (6010/7000)	Anions + TDS	Cr^{+6}	ClO_4	QA/QC for Cr^{+6}	MS for VOCs	MSD for VOCs	MS/MSD for metals	LOCATION	DEPTH	QC CODE
MW-983-114	0815	8/13/98	2	40ml	X			X									Trip	BLANK	
MW-983-115	0825	↓	5	2x40, 1x250 2x125	X			X	X		X	X					EQ	BLANK	
MW-983-006	0910	↓	6	2x40 2x500 2x125	X			X	X	X	X	X	X			X	MW-23	Screen #5	MS/MSD metals
MW-983-007	1020	↓	6	2x40 1x250 1x500 2x125	X			X	X	X	X	X					MW-23	Screen	#4
MW-983-006 MS	0910	↓	2	40ml	X									X			MW-23	Screen #5	MS for VOCs
MW-983-006 MSD	0910	↓	2	40ml	X										X		MW-23	Screen #5	MSD for VOCs
MW-983-008	1320	↓	6	2x40 1x250 1x500 2x125	X			X	X	X	X	X					MW-23	Screen	#3
MW-983-009	1415	↓	6	2x40 1x250 1x500 2x125	X			X	X	X	X	X					MW-23	Screen	#2
MW-983-010	1450	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X					MW-23	Screen	#1

THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

SAMPLING COMMENTS

Samples Delivered to LAB @ 3°C.

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	8/13/98	[signature]			
COMPANY: FOSTER WHEELER	TIME: 15:50	COMPANY: MWLabs	COMPANY	TIME	COMPANY

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