



**MONTGOMERY WATSON LABORATORIES**

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

Laboratory  
QC Report  
#38087

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #69296**

**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	478	95.6	( 85.00 - 115.00 )	
LCS2	Iron, Total, ICAP/MS	500	489	97.8	( 85.00 - 115.00 )	2.3
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	515	103.0	( 70.00 - 130.00 )	
MSD	Iron, Total, ICAP/MS	500	521	104.2	( 70.00 - 130.00 )	1.2

**QC Batch #69297**

**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	18.9	94.5	( 85.00 - 115.00 )	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	( 85.00 - 115.00 )	4.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.4	97.0	( 70.00 - 130.00 )	
MSD	Lead, Total, ICAP/MS	20	19	95.0	( 70.00 - 130.00 )	2.1

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**

December 5, 1997

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

Attention: Mark Cutler

Re: Report # 38124 (MW-973-124, MW-973-125, MW-973-70, MW-973-70MS, MW-973-70MSD, MW-973-16, MW-973-14)

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):**

(VOC) MW-973-16: Surrogate, 1,2-DCAd4, recovered above MWL QC limits, repeatedly. BFB, the QAPP required surrogate, as well as Toluene-d4 are within acceptance limits. No QIR generated.

**Samples requiring dilution (with increased MRL's):**

MW-973-14: Chloride, Nitrate, Sulfate

MW-973-70: Calcium, Chloride, Nitrate, Sulfate

**Method blanks with compounds detected:**

None

**Other Comments:**

1,1 Dichloroethane was detected in sample ID: MW-973-70

Chloroform was detected in sample ID: MW-973-16

Carbon Tetrachloride was detected in sample ID: MW-973-16

Fluorotrichloromethane was detected in sample ID: MW-973-16

Tetrachloroethylene was detected in sample ID: MW-973-70

Trichloroethylene was detected in sample ID: MW-973-70, -16

Perchlorate was detected in sample ID: MW-973-70, -16

Sincerely,

Debbie Frank  
Project Manager

cc: Judy Novelty (JPL)

Report Summary of positive results, PR38124

			Result	MDL	UNITS
Analyzed	971022128	MW-973-124			
Analyzed	971022129	MW-973-125			
11/17/97	Chromium, Total, ICAP/MS		48	10.000	UGL
Analyzed	971022130	MW-973-70			
10/23/97	1,1-Dichloroethane		0.8	.500	UGL
10/23/97	Tetrachloroethylene (PCE)		0.6	.500	UGL
10/23/97	Trichloroethylene (TCE)		3.1	.500	UGL
10/27/97	Alkalinity		250	2.000	MGL
10/30/97	Anion Sum		12.4	.001	MEQL
10/30/97	Bicarbonate as HCO <sub>3</sub> , calculated		305	.001	MGL
11/05/97	Calcium, Flame AA		130	5.000	MGL
10/30/97	Carbonate as CO <sub>3</sub> , Calculated		0.395	.001	MGL
11/08/97	Cation Sum		11.800	.001	MEQL
10/23/97	Chloride		110	2.000	MGL
11/17/97	Iron, Total, ICAP/MS		400	*****	UGL
10/24/97	Lab pH		7.3	.001	UNIT
11/01/97	Magnesium, Flame AA		45	1.000	MGL
10/23/97	Nitrate-N by IC		14	.200	MGL
11/03/97	Perchlorate		4.4	4.000	UGL
11/01/97	Potassium, Flame AA		3.7	1.000	MGL
11/01/97	Sodium, Flame AA		34	1.000	MGL
10/24/97	Specific Conductance		1290	4.000	UMHO
10/23/97	Sulfate		160	4.000	MGL
10/24/97	Total Dissolved Solid (TDS)		730	10.000	MGL
Analyzed	971022131	MW-973-70 MS			
10/25/97	1,1-Dichloroethylene		3.4	.500	UGL
10/25/97	1,2,4-Trichlorobenzene		3.7	.500	UGL
10/25/97	Benzene		3.2	.500	UGL
10/25/97	Chlorobenzene		3.2	.500	UGL
10/25/97	Chloroform (Trichloromethane)		4.0	.500	UGL
10/25/97	Toluene		3.3	.500	UGL
10/25/97	Trichloroethylene (TCE)		3.2	.500	UGL
10/25/97	p-Chlorotoluene		3.6	.500	UGL
10/25/97	p-Dichlorobenzene (1,4-DCB)		3.4	.500	UGL
Analyzed	971022132	MW-973-70 MSD			
10/25/97	1,1-Dichloroethylene		3.5	.500	UGL
10/25/97	1,2,4-Trichlorobenzene		3.4	.500	UGL
10/25/97	Benzene		3.2	.500	UGL
10/25/97	Chlorobenzene		3.3	.500	UGL
10/25/97	Chloroform (Trichloromethane)		4.1	.500	UGL
10/25/97	Toluene		3.5	.500	UGL
10/25/97	Trichloroethylene (TCE)		3.0	.500	UGL
10/25/97	p-Chlorotoluene		3.5	.500	UGL
10/25/97	p-Dichlorobenzene (1,4-DCB)		3.7	.500	UGL
Analyzed	971022133	MW-973-16			

10/25/97	Carbon Tetrachloride	3.2	.500	UGL
10/25/97	Chloroform (Trichloromethane)	1.2	.500	UGL
10/25/97	Fluorotrchloromethane-Freon11	1.0	.500	UGL
10/25/97	Trichloroethylene (TCE)	3.6	.500	UGL
11/11/97	Data Entry	11/25/97		--
10/27/97	Alkalinity	135	2.000	MGL
10/30/97	Anion Sum	4.37	.001	MEQL
10/30/97	Bicarbonate as HCO3,calculated	165	.001	MGL
11/05/97	Calcium, Flame AA	50	1.000	MGL
10/30/97	Carbonate as CO3, Calculated	0.170	.001	MGL
11/08/97	Cation Sum	4.470	.001	MEQL
10/23/97	Chloride	16	1.000	MGL
11/17/97	Iron, Total, ICAP/MS	105	*****	UGL
10/24/97	Lab pH	7.2	.001	UNIT
11/01/97	Magnesium, Flame AA	14	1.000	MGL
10/23/97	Nitrate-N by IC	3.7	.100	MGL
11/03/97	Perchlorate	29	4.000	UGL
11/01/97	Potassium, Flame AA	2.9	1.000	MGL
11/01/97	Sodium, Flame AA	17	1.000	MGL
10/24/97	Specific Conductance	485	4.000	UMHO
10/23/97	Sulfate	46	2.000	MGL
10/24/97	Total Dissolved Solid (TDS)	280	10.000	MGL

Analyzed 971022134 MW-973-14

10/27/97	Alkalinity	160	2.000	MGL
10/30/97	Anion Sum	5.95	.001	MEQL
10/30/97	Bicarbonate as HCO3,calculated	195	.001	MGL
11/05/97	Calcium, Flame AA	66	1.000	MGL
10/30/97	Carbonate as CO3, Calculated	0.160	.001	MGL
11/08/97	Cation Sum	6.000	.001	MEQL
10/23/97	Chloride	49	2.000	MGL
10/17/97	Iron, Total, ICAP/MS	260	*****	UGL
10/24/97	Lab pH	7.1	.001	UNIT
11/01/97	Magnesium, Flame AA	20	1.000	MGL
10/23/97	Nitrate-N by IC	5.4	.200	MGL
11/01/97	Potassium, Flame AA	2.0	1.000	MGL
11/01/97	Sodium, Flame AA	23	1.000	MGL
10/24/97	Specific Conductance	650	4.000	UMHO
10/23/97	Sulfate	47	4.000	MGL
10/24/97	Total Dissolved Solid (TDS)	370	10.000	MGL



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Laboratory Report

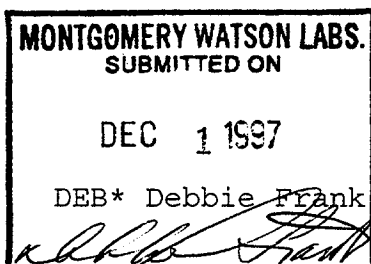
for

Foster Wheeler Environmental, Inc  
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



Report#: 38124  
JPL



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Laboratory  
Report  
#38124

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

Samples Received  
22-oct-1997 17:18:54

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
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MW-973-124 (971022128)      Sampled on 10/22/97

**Regulated VOCs plus Lists 1&3**

10/23/97	68358	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
10/23/97	68358	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
10/23/97	68358	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	cis-1,3-Dichloropropane	ND	ug/l	0.50	1
10/23/97	68358	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1



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Laboratory  
Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/23/97	68358	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None detected	ND	ug/L		1
			( Surrogate )	1,2-Dichloroethane-d4	114	% Rec		
			( Surrogate )	4-Bromofluorobenzene	88	% Rec		
			( Surrogate )	Toluene-d8	107	% Rec		



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Laboratory  
Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
<b>MW-973-125 (971022129)                      Sampled on 10/22/97</b>								
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/03/97	68787	( MOD/EPA 300 )	Perchlorate	ND	ug/l	4.0	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	48	ug/l	10	1
	10/22/97	68094	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
10/23/97	68358	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1	
10/23/97	68358	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
10/23/97	68358	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1	
10/23/97	68358	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1	



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Laboratory  
 Report  
 #38124

Foster Wheeler Environmental, Inc  
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/23/97	68358	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None detected	ND	ug/L		1
			( Surrogate )	1,2-Dichloroethane-d4	117	% Rec		
			( Surrogate )	4-Bromofluorobenzene	88	% Rec		



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Laboratory  
Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			( Surrogate )	Toluene-d8	103	% Rec		
<b>MW-973-70 (971022130)</b>				<b>Sampled on 10/22/97</b>				
	10/27/97	68301	( ML/S2320B )	Alkalinity	250	mg/l	2.0	1
	10/30/97		( ML/SM1040 )	Anion Sum	12.4	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	130	mg/l	5.0	5
	11/08/97		( ML/SM1040 )	Cation Sum	11.800	meq/l	0.0010	1
	10/23/97	68174	( ML/EPA 300 )	Chloride	110	mg/l	2.0	2
	11/03/97	68787	( MOD/EPA 300 )	Perchlorate	4.4	ug/l	4.0	1
	10/30/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.395	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/22/97	68094	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	10/24/97		( ML/S2510B )	Specific Conductance	1290	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	400	ug/l	100	1
	10/30/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	305	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	3.7	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	45	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	34	mg/l	1.0	1
	10/23/97	68176	( ML/EPA 300.0 )	Nitrate-N by IC	14	mg/l	0.20	2
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/24/97		( ML/SM 4500H )	Lab pH	7.3	Units	0.0010	1
	10/23/97	68178	( ML/EPA 300.0 )	Sulfate	160	mg/l	4.0	2
	10/24/97	68230	( ML/S2540C )	Total Dissolved Solid (TDS)	730	mg/l	10	1
				<b>Regulated VOCs plus Lists 1&amp;3</b>				
	10/23/97	68358	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloroethane	0.8	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Laboratory  
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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/23/97	68358	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/23/97	68358	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1



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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/23/97	68358	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Trichloroethylene (TCE)	3.1	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/23/97	68358	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None detected	ND	ug/L		1
			( Surrogate )	1,2-Dichloroethane-d4	112	% Rec		
			( Surrogate )	4-Bromofluorobenzene	95	% Rec		
			( Surrogate )	Toluene-d8	104	% Rec		

MW-973-70 MS (971022131)

Sampled on 10/22/97

**Regulated VOCs plus Lists 1&3**

10/25/97	68361	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,1,1-Trichloroethane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,1,2-Trichloroethane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethylene	3.4	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloropropene	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichloropropane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	3.7	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloroethane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloropropane	NA	ug/l	0.50	1
10/25/97	68361	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1

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Foster Wheeler Environmental, Inc  
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	1,3-Dichloropropane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	3.4	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2,2-Dichloropropane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2-Butanone (MEK)	NA	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Chlorotoluene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Chlorotoluene	3.6	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	Benzene	3.2	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromobenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorobenzene	3.2	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Carbon Tetrachloride	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromoform	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	4.0	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromochloromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorodibromomethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dibromomethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromodichloromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichloromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Ethyl benzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichlorodifluoromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Hexachlorobutadiene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Isopropylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m,p-Xylenes	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Naphthalene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Butylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Propylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Xylene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1



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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	p-Isopropyltoluene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	sec-Butylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Styrene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	tert-Butylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichloroethylene (TCE)	3.2	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Toluene	3.3	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Vinyl chloride (VC)	NA	ug/l	0.30	1
			( Surrogate )	1,2-Dichloroethane-d4	117	% Rec		
			( Surrogate )	4-Bromofluorobenzene	102	% Rec		
			( Surrogate )	Toluene-d8	106	% Rec		

MW-973-70 MSD (971022132)      Sampled on 10/22/97

**Regulated VOCs plus Lists 1&3**

	10/25/97	68361	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethylene	3.5	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloropropene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	3.4	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloropropane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,3-Dichloropropane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	3.7	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2,2-Dichloropropane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2-Butanone (MEK)	NA	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Chlorotoluene	NA	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	p-Chlorotoluene	3.5	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	Benzene	3.2	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromobenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorobenzene	3.3	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Carbon Tetrachloride	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromoform	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	4.1	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromochloromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorodibromomethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dibromomethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromodichloromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichloromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Ethyl benzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichlorodifluoromethane	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Hexachlorobutadiene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Isopropylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m,p-Xylenes	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Naphthalene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Butylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Propylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Xylene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Isopropyltoluene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	sec-Butylbenzene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Styrene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	tert-Butylbenzene	NA	ug/l	0.50	1



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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	Trichloroethylene (TCE)	3.0	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Toluene	3.5	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Vinyl chloride (VC)	NA	ug/l	0.30	1
			( Surrogate )	1,2-Dichloroethane-d4	119	% Rec		
			( Surrogate )	4-Bromofluorobenzene	99	% Rec		
			( Surrogate )	Toluene-d8	104	% Rec		
<b>MW-973-16 (971022133)                      Sampled on 10/22/97</b>								
	10/27/97	68301	( ML/S2320B )	Alkalinity	135	mg/l	2.0	1
	10/30/97		( ML/SM1040 )	Anion Sum	4.37	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	50	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	4.470	meq/l	0.0010	1
	10/23/97	68174	( ML/EPA 300 )	Chloride	16	mg/l	1.0	1
	11/03/97	68787	( MOD/EPA 300 )	Perchlorate	29	ug/l	4.0	1
	10/30/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.170	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/22/97	68094	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	10/24/97		( ML/S2510B )	Specific Conductance	485	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	105	ug/l	100	1
	10/30/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	165	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	2.9	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	14	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	17	mg/l	1.0	1
	10/23/97	68176	( ML/EPA 300.0 )	Nitrate-N by IC	3.7	mg/l	0.10	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/24/97		( ML/SM 4500H )	Lab pH	7.2	Units	0.0010	1
	10/23/97	68178	( ML/EPA 300.0 )	Sulfate	46	mg/l	2.0	1
	10/24/97	68230	( ML/S2540C )	Total Dissolved Solid (TDS)	280	mg/l	10	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/25/97	68361	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1



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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Carbon Tetrachloride	3.2	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	1.2	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1



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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	1.0	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichloroethylene (TCE)	3.6	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None detected	ND	ug/L		1
			( Surrogate )	1,2-Dichloroethane-d4	125	% Rec		
			( Surrogate )	4-Bromofluorobenzene	93	% Rec		
			( Surrogate )	Toluene-d8	108	% Rec		
<b>Tributyltin</b>								
	11/11/97	69535	( GC/FPD )	Tributyltin	ND	ng/l	2.0	1
			( Surrogate )	Tripopyltin	51	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
<b>MW-973-14 (971022134)                      Sampled on 10/22/97</b>								
	10/27/97	68301	( ML/S2320B )	Alkalinity	160	mg/l	2.0	1
	10/30/97		( ML/SM1040 )	Anion Sum	5.95	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	66	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	6.000	meq/l	0.0010	1
	10/23/97	68174	( ML/EPA 300 )	Chloride	49	mg/l	2.0	2
	11/03/97	68787	( MOD/EPA 300 )	Perchlorate	ND	ug/l	4.0	1
	10/30/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.160	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/22/97	68094	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	10/24/97		( ML/S2510B )	Specific Conductance	650	umho/cm	4.0	1
10/21/97	10/17/97	68335	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	260	ug/l	100	1
	10/30/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	2.0	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	20	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	23	mg/l	1.0	1
	10/23/97	68176	( ML/EPA 300.0 )	Nitrate-N by IC	5.4	mg/l	0.20	2
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/24/97		( ML/SM 4500H )	Lab pH	7.1	Units	0.0010	1
	10/23/97	68178	( ML/EPA 300.0 )	Sulfate	47	mg/l	4.0	2
	10/24/97	68230	( ML/S2540C )	Total Dissolved Solid (TDS)	370	mg/l	10	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/25/97	68361	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory  
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#38124

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/25/97	68361	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( 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
	10/25/97	68361	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/25/97	68361	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None detected	ND	ug/L		1
			( Surrogate )	1,2-Dichloroethane-d4	110	% Rec		
			( Surrogate )	4-Bromofluorobenzene	107	% Rec		
			( Surrogate )	Toluene-d8	103	% Rec		



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**Group Comments**

(524) Sample 971022133 was analyzed twice and 1,2-dichloro-  
-ethane-d4 recovered above QC limit both times.  
(TBT) Results submitted by ToxScan, Inc.

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**QC Batch #68094****Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	( 78.00 - 118.00 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0486	97.2	( 78.00 - 118.00 )	1.6
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0460	92.0	( 80.00 - 120.00 )	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0486	97.2	( 80.00 - 120.00 )	5.5

**QC Batch #68174****Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	( 90.00 - 110.00 )	
LCS2	Chloride	25	26.0	104.0	( 90.00 - 110.00 )	0.00
MBLK	Chloride	ND				
MS	Chloride	25	26.9	107.6	( 80.00 - 120.00 )	
MSD	Chloride	25	26.9	107.6	( 80.00 - 120.00 )	0.00

**QC Batch #68176****Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.57	102.8	( 90.00 - 110.00 )	
LCS2	Nitrate-N by IC	2.5	2.57	102.8	( 90.00 - 110.00 )	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.43	97.2	( 90.00 - 110.00 )	
MSD	Nitrate-N by IC	2.5	2.43	97.2	( 90.00 - 110.00 )	0.00

**QC Batch #68178****Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.2	104.4	( 90.00 - 110.00 )	
LCS2	Sulfate	50	52.2	104.4	( 90.00 - 110.00 )	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.8	107.6	( 70.00 - 130.00 )	
MSD	Sulfate	50	53.8	107.6	( 70.00 - 130.00 )	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 #68230**

**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	( 85.00 - 115.00 )	
LCS2	Total Dissolved Solid (TDS)	700	658	94.0	( 85.00 - 115.00 )	
MBLK	Total Dissolved Solid (TDS)	ND				

**QC Batch #68301**

**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	96.3	100.1	( 90.00 - 110.00 )	
LCS2	Alkalinity	96.2	95.8	99.6	( 90.00 - 110.00 )	0.52
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.4	101.2	( 80.00 - 120.00 )	
MSD	Alkalinity	96.2	98.3	102.2	( 80.00 - 120.00 )	0.92

**QC Batch #68335**

**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	( 85.00 - 115.00 )	
LCS2	Iron, Total, ICAP/MS	500	505	101.0	( 85.00 - 115.00 )	3.2
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	508.	102.0	( 70.00 - 130.00 )	
MSD	Iron, Total, ICAP/MS	500	523.	105.0	( 70.00 - 130.00 )	2.9

**QC Batch #68358**

**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.03	100.8	( 70.00 - 130.00 )	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.94	98.5	( 70.00 - 130.00 )	

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MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.75	118.8	( 70.00 - 130.00 )	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.13	103.2	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.05	101.2	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.89	97.2	( 70.00 - 130.00 )	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.64	116.0	( 70.00 - 130.00 )	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.97	99.2	( 70.00 - 130.00 )	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.72	109.0	( 70.00 - 130.00 )	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	3.86	96.5	( 70.00 - 130.00 )	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				
MBLK	Bromochloromethane	ND				
LCS1	Bromodichloromethane	4	4.27	106.7	( 70.00 - 130.00 )	
MBLK	Bromodichloromethane	ND				
LCS1	Bromoform	4	4.67	116.8	( 70.00 - 130.00 )	
MBLK	Bromoform	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	Carbon Tetrachloride	4	3.66	91.5	( 70.00 - 130.00 )	
MBLK	Carbon Tetrachloride	ND				
LCS1	Chlorobenzene	4	4.28	107.0	( 70.00 - 130.00 )	
MBLK	Chlorobenzene	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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LCS1	Chlorodibromomethane	4	4.45	111.2	( 70.00 - 130.00 )
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.05	101.2	( 70.00 - 130.00 )
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.31	107.7	( 70.00 - 130.00 )
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.92	98.0	( 70.00 - 130.00 )
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.26	113.0	( 70.00 - 130.00 )
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.01	100.2	( 70.00 - 130.00 )
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.88	97.0	( 70.00 - 130.00 )
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.02	100.5	( 70.00 - 130.00 )
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.00	100.0	( 70.00 - 130.00 )
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane (Freon)	4	4.04	101.0	( 70.00 - 130.00 )
MBLK	Trichlorotrifluoroethane (Freon)	ND			
LCS1	Vinyl chloride (VC)	2	1.80	90.0	( 70.00 - 130.00 )
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.06	101.5	( 70.00 - 130.00 )
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.95	99.4	( 70.00 - 130.00 )
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			

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MBLK	o-Chlorotoluene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.85	96.2	( 70.00 - 130.00 )	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	o-Xylene	4	3.92	98.0	( 70.00 - 130.00 )	
MBLK	o-Xylene	ND				
MBLK	p-Chlorotoluene	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.35	83.8	( 70.00 - 130.00 )	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	trans-1,2-Dichloroethylene	4	4.14	103.5	( 70.00 - 130.00 )	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	trans-1,3-Dichloropropene	ND				

**QC Batch #68361**

**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.79	119.8	( 70.00 - 130.00 )	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.13	103.2	( 70.00 - 130.00 )	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.40	110.0	( 70.00 - 130.00 )	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.73	118.3	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.44	111.0	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.40	110.0	( 70.00 - 130.00 )	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.92	123.0	( 70.00 - 130.00 )	

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MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	4.34	108.5	( 70.00 - 130.00 )
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	9.44	118.0	( 70.00 - 130.00 )
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.16	104.0	( 70.00 - 130.00 )
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.68	117.0	( 70.00 - 130.00 )
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	4.87	121.8	( 70.00 - 130.00 )
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.43	110.8	( 70.00 - 130.00 )
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.54	113.5	( 70.00 - 130.00 )
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.75	118.8	( 70.00 - 130.00 )
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.50	112.5	( 70.00 - 130.00 )
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.63	115.8	( 70.00 - 130.00 )
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.41	110.2	( 70.00 - 130.00 )
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrchloromethane-Freon11	2	2.53	126.5	( 70.00 - 130.00 )
MBLK	Fluorotrchloromethane-Freon11	ND			

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MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.48	112.0	( 70.00 - 130.00 )
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.52	113.0	( 70.00 - 130.00 )
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.41	110.2	( 70.00 - 130.00 )
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.40	110.0	( 70.00 - 130.00 )
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane (Freon	4	4.48	112.0	( 70.00 - 130.00 )
MBLK	Trichlorotrifluoroethane (Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.15	107.5	( 70.00 - 130.00 )
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.53	113.2	( 70.00 - 130.00 )
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	9.42	117.8	( 70.00 - 130.00 )
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.42	110.5	( 70.00 - 130.00 )
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.60	115.0	( 70.00 - 130.00 )
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.21	105.2	( 70.00 - 130.00 )
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.59	114.8	( 70.00 - 130.00 )
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	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)

Laboratory  
QC Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #68704**

**Potassium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	21.4	107.0	( 80.00 - 120.00 )	
LCS2	Potassium, Flame AA	20	21.9	109.5	( 80.00 - 120.00 )	2.3
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.6	103.0	( 85.00 - 115.00 )	
MSD	Potassium, Flame AA	20	20.9	104.5	( 85.00 - 115.00 )	1.4

**QC Batch #68707**

**Sodium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	49.8	99.6	( 90.00 - 110.00 )	
LCS2	Sodium, Flame AA	50	48.3	96.6	( 90.00 - 110.00 )	3.1
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	46.7	93.4	( 85.00 - 115.00 )	
MSD	Sodium, Flame AA	50	47.1	94.2	( 85.00 - 115.00 )	0.85

**QC Batch #68710**

**Magnesium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.2	101.0	( 90.00 - 110.00 )	
LCS2	Magnesium, Flame AA	20	18.8	94.0	( 90.00 - 110.00 )	7.2
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	18.8	94.0	( 85.00 - 115.00 )	
MSD	Magnesium, Flame AA	20	19.2	96.0	( 85.00 - 115.00 )	2.1

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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Laboratory  
QC Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #68713**

**Calcium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.4	102.8	( 90.00 - 110.00 )	
LCS2	Calcium, Flame AA	50	51.9	103.8	( 90.00 - 110.00 )	0.97
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.3	94.6	( 85.00 - 115.00 )	
MSD	Calcium, Flame AA	50	47.6	95.2	( 85.00 - 115.00 )	0.63

**QC Batch #68787**

**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	18.3	91.5	( 90.00 - 110.00 )	
LCS2	Perchlorate	20.0	18.9	94.5	( 90.00 - 110.00 )	3.2
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.1	100.5	( 75.00 - 125.00 )	
MSD	Perchlorate	20.0	19.5	97.5	( 75.00 - 125.00 )	3.0

**QC Batch #69222**

**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0210	105.0	( 85.00 - 115.00 )	
LCS2	Arsenic, Total, GF	0.020	0.0196	98.0	( 85.00 - 115.00 )	6.9
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0202	101.0	( 85.00 - 115.00 )	
MSD	Arsenic, Total, GF	0.020	0.0199	99.5	( 85.00 - 115.00 )	1.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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Laboratory  
QC Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #69295**

**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	100	100.0	( 70.00 - 130.00 )	
MSD	Chromium, Total, ICAP/MS	100	98.1	98.1	( 70.00 - 130.00 )	1.9

**QC Batch #69296**

**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	478	95.6	( 85.00 - 115.00 )	
LCS2	Iron, Total, ICAP/MS	500	489	97.8	( 85.00 - 115.00 )	2.3
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	515	103.0	( 70.00 - 130.00 )	
MSD	Iron, Total, ICAP/MS	500	521	104.2	( 70.00 - 130.00 )	1.2

**QC Batch #69297**

**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	18.9	94.5	( 85.00 - 115.00 )	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	( 85.00 - 115.00 )	4.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.4	97.0	( 70.00 - 130.00 )	
MSD	Lead, Total, ICAP/MS	20	19	95.0	( 70.00 - 130.00 )	2.1

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.





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Laboratory  
QC Report  
#38124

Foster Wheeler Environmental, Inc  
(continued)

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**QC Batch #69535**

**Tributyltin**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS	Tributyltin	50	43	86.0	( 50.00 - 150.00 )	
MBLK	Tributyltin	ND				
MS	Tributyltin	50	60.7	121.4	( 50.00 - 150.00 )	
MSD	Tributyltin	50	37.7	75.4	( 50.00 - 150.00 )	47

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

NOV 19 RECD



ToxScan, Inc. 42 Hangar Way • Watsonville, CA 95076-2404 • (408) 724-4522 • FAX (408) 724-3188

38124  
ENSERCH  
97-641

November 14, 1997

ToxScan Number: T-15210

Montgomery Watson Laboratories  
555 E. Walnut Street  
Pasadena, CA 91101

Attn: Martha Frost

Project Name: None  
Project Number: 38124  
Date Sampled: October 22, 1997  
Date Received: October 24, 1997  
Matrix: Liquid

Please find the enclosed test results for the parameter requested for analysis. The sample was analyzed within holding time using the following method:

Tributyltin in water by Gas Chromatography with a Flame Photometric Detector, (GC/FPD).

The sample was received intact and was handled with the proper chain-of-custody procedures. Appropriate QA/QC guidelines were employed during the analyses on a minimum of a 5% basis. QC results were within limits and are reported with or following the data for each analysis.

The QC limits for the laboratory control sample (LCS) are 50 to 140 percent.

If you have any questions or require any additional information, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Philip D. Carpenter".

Philip D. Carpenter, Ph.D.  
President

Enclosures

*This cover letter is an integral part of the report.*

Client: Montgomery Watson Laboratories  
Method: EPA Method(s) GC/FPD  
Date Completed: 11/11/97  
Matrix: Liquid  
Units: ng/L

ToxScan Number: T-15210

<u>Client Sample ID</u>	<u>Site ID</u>	<u>ToxScan Lab ID</u>	<u>Analyte</u>	<u>Sample Value</u>	<u>Reporting Limit</u>
971022133	MW-973-16	15210-01	Tributyltin	ND	2.0

## EXPLANATION OF ACRONYMS FOR PROJECT # T-15210

The following is a glossary for acronyms that may be used in this report.

<u>Abbreviation</u>	<u>Definition</u>
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	None Detected
REP	Replicate
RPD	Relative Percent Difference
SRM	Standard Reference Material
TOC	Total Organic Carbon

### QC FOR PROJECT # 15210

Concentrations of the following are in ng/L

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY:

Matrix: Water

<u>Analyte</u>	<u>Sample Amount</u>	<u>Amount of Spike</u>	<u>Matrix Spike</u>	<u>MS % Rec</u>	<u>Matrix Spike Dup</u>	<u>MSD % Rec</u>	<u>RPD</u>
Tributyltin 15210-01	ND	50	60.7	121	37.7	76	46

QC FOR PROJECT # T-15210

LABORATORY METHOD BLANK SUMMARY

Applicable Matrix: Water

<u>Analyte</u>	<u>Amount</u>	<u>Reporting Limit ng/L</u>	<u>EPA Method Number</u>
Tributyltin	ND	2.0	GC/FPD

**QC FOR PROJECT # T-15210**

**LABORATORY CONTROL SPIKE**

Concentrations of the following are in ng/L

Matrix: Water

<u>Analyte</u>	<u>Amount of Spike</u>	<u>LCS Amount</u>	<u>LCS % Rec</u>
Tributyltin	50	43	86

QC FOR PROJECT # 15210

SURROGATE RECOVERY

<u>Surrogate</u>	<u>Sample</u>	<u>% Recovery</u>	<u>QC Limits</u>
Tripopyltin	Laboratory Control Spike	77%	50 - 140
Tripopyltin	Method Blank	66%	50 - 140
Tripopyltin	15210-1	51%	50 - 140
Tripopyltin	15210-1 MS	61%	50 - 140
Tripopyltin	15210-1 MSD	69%	50 - 140



INITIAL AND CONTINUING CALIBRATION VERIFICATION

ToxScan Inc.

Lab Code: T-15210 Case No.: T-15210

Initial Calib. Source: 971107- SPKSTD

Cont. Calib. Source: 971107- SPKSTD

Waters

Concentration Units: ug/L

Analyte	Initial Calibrati			Continuing Calibration			Date Analyzed
	True	Found	%R	True	Found	%R	
Tributyltin	300	379	126	300	318	106	11-Nov-97



Software Version: 4.0<4J28>

Sample Name : 30-971110-Autocal

Time : 11/10/97 03:25 PM

Sample Number: 1

Study : 15210 et al

Operator : cr

Instrument : TBT

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 0059571855 Data Acquisition Time: 11/10/97 02:02 PM

Delay Time : 6.00 min.

End Time : 10.80 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA1\5210001.RAW

Result File : C:\TC4\DATA1\5210001.RST

Inst Method : TBTH2O2 from C:\TC4\DATA1\5210001.RST

Proc Method : C:\TC4\METHODS\TBTH2O2.mth

Calib Method : C:\TC4\METHODS\TBTH2O2.mth

Sequence File : C:\TC4\SEQUENCE\15210.SEQ

Sample Volume : 1.0000 ul

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)
6.48	Tripropyltin	32742	17148	1.909	30.0000	30.0000
7.17	Tetrabutyltin	26374	15403	1.712	30.0000	30.0000
7.27	Dipropyltin	58401	28261	2.066	30.0000	30.0000
7.55	Tributyltin	43592	22195	1.964	30.0000	30.0000
7.91	Dibutyltin	39318	19108	2.058	30.0000	30.0000
8.25	Monobutyltin	46526	26612	1.748	30.0000	30.0000

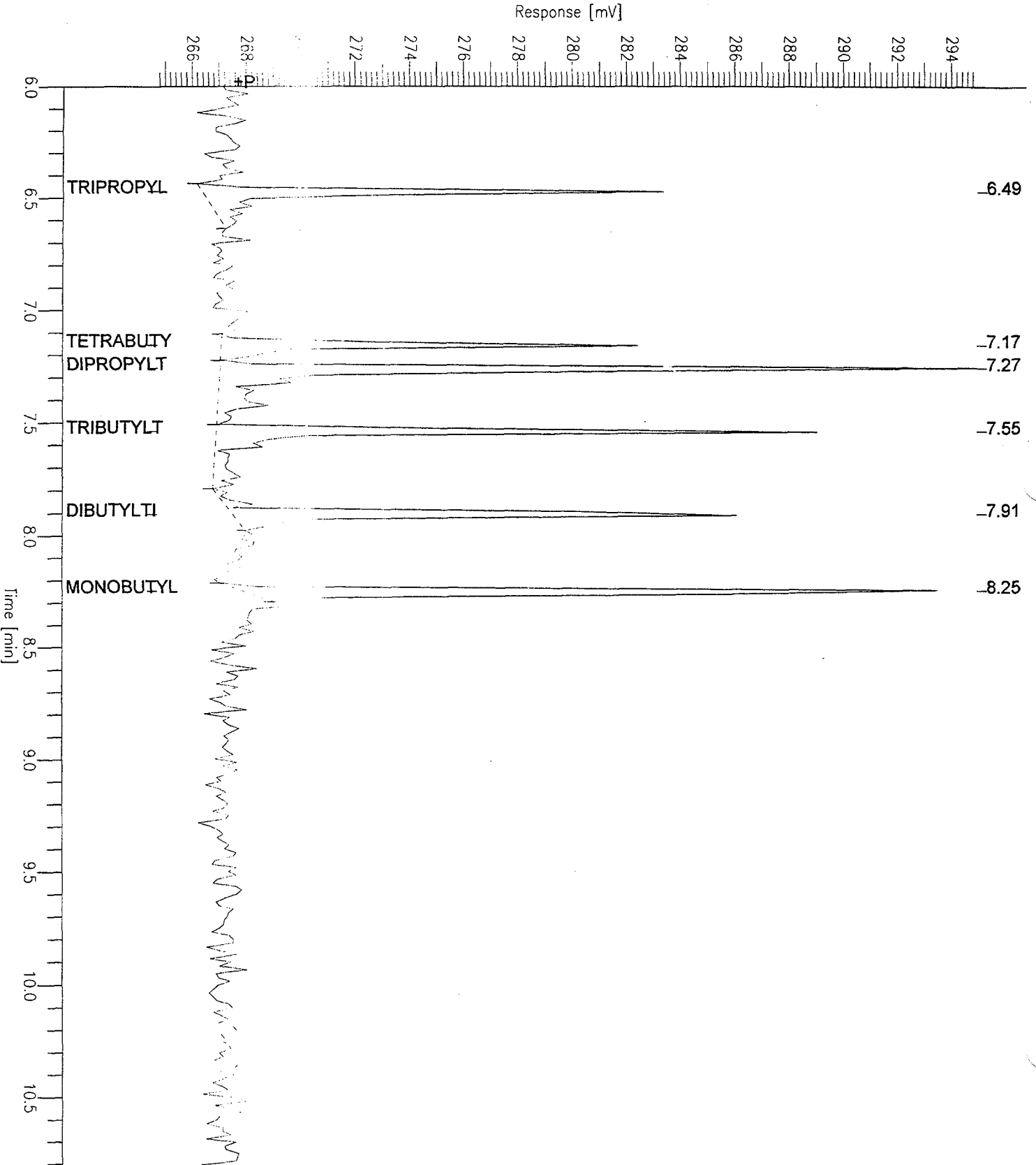
# Chromatogram

Sample Name : 30-971110-Autocal  
FileName : C:\TC4\DATA1\5210001.raw  
Method : TBTH2O2  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 265 mV

Sample #: 1  
Date : 11/10/97 03:25 PM  
Time of Injection: 11/10/97 02:02 PM  
Low Point : 264.75 mV  
Plot Scale: 30.2 mV

Page 1 of 1



Software Version: 4.0<4J28>

Sample Name : 300-971110-Autocal

Time : 11/10/97 03:25 PM

Sample Number: 2

Study : 15210 et al

Operator : cr

Instrument : TBT

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 0059571855 Data Acquisition Time: 11/10/97 02:19 PM

Delay Time : 6.00 min.

End Time : 10.80 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA1\5210002.RAW

Result File : C:\TC4\DATA1\5210002.RST

Inst Method : TBTH2O2 from C:\TC4\DATA1\5210002.RST

Proc Method : C:\TC4\METHODS\TBTH2O2.mth

Calib Method : C:\TC4\METHODS\TBTH2O2.mth

Sequence File : C:\TC4\SEQUENCE\15210.SEQ

Sample Volume : 1.0000 ul

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)
6.13		7201	3621	1.989	0.0072	0.0072
6.48	Tripropyltin	266273	123566	2.155	300.0000	300.0000
6.70		16800	5352	3.139	0.0168	0.0168
7.15	Tetrabutyltin	243634	149995	1.624	300.0000	300.0000
7.26	Dipropyltin	498336	259711	1.919	300.0000	300.0000
7.54	Tributyltin	312682	185931	1.682	300.0000	300.0000
7.90	Dibutyltin	388094	235062	1.651	300.0000	300.0000
8.25	Monobutyltin	526352	302215	1.742	300.0000	300.0000
9.02		11034	2515	4.388	0.0110	0.0110

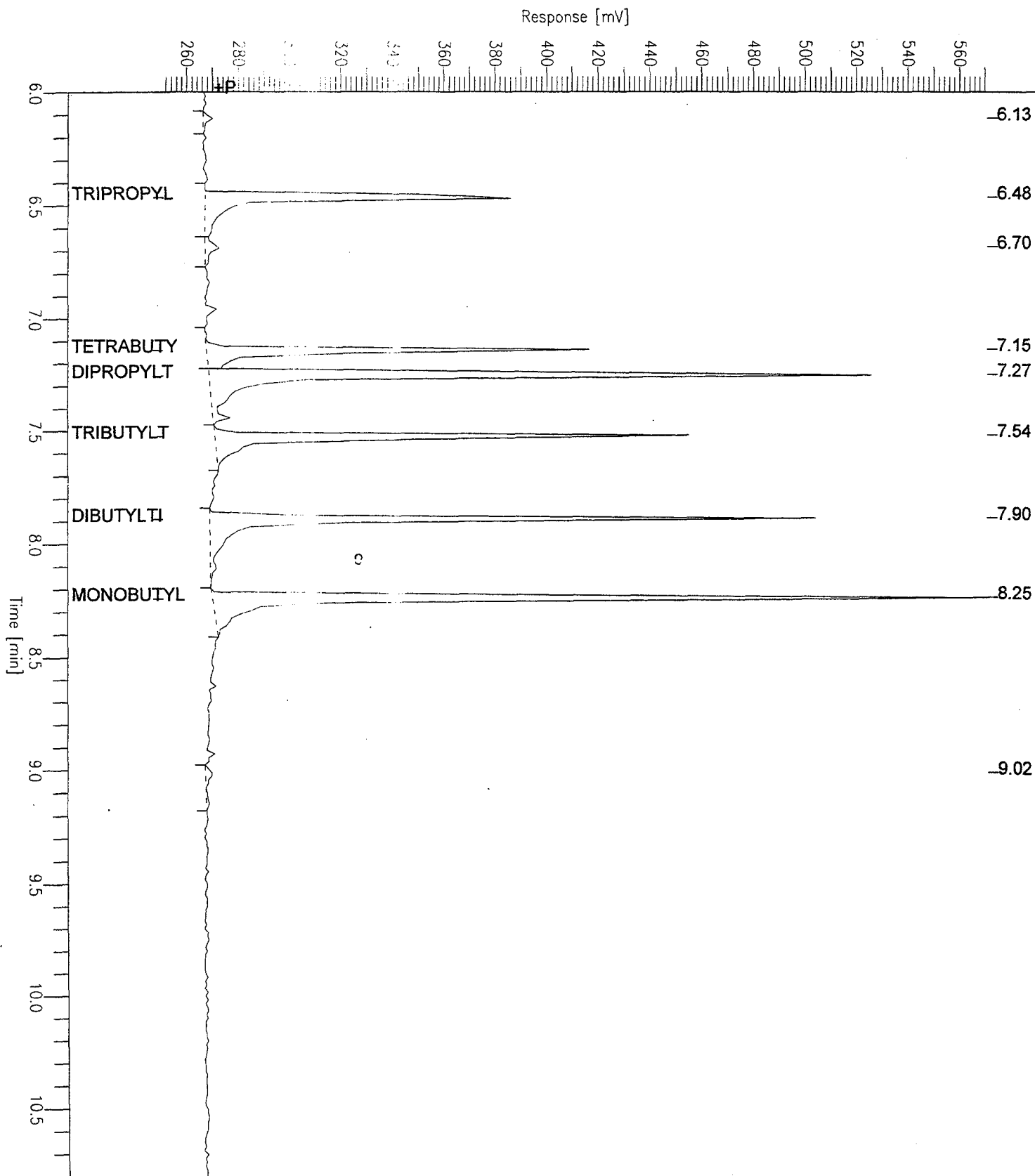
# Chromatogram

Sample Name : 300-971110-Autocal  
FileName : C:\TC4\DATA1\5210002.raw  
Method : TBTH2O2  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 251 mV

Sample #: 2  
Date : 11/10/97 03:25 PM  
Time of Injection: 11/10/97 02:19 PM  
Low Point : 251.18 mV  
Plot Scale: 319.8 mV  
High Point : 570.95 mV

Page 1 of 1



Software Version: 4.0<4J28>

Sample Name : 400-971110-Autocal

Time : 11/10/97 03:25 PM

Sample Number: 3

Study : 15210 et al

Operator : cr

Instrument : TBT

Channel : A

A/D mV Range : 1000

AutoSampler :

Rack/Vial : 0/0

Interface Serial # : 0059571855 Data Acquisition Time: 11/10/97 02:35 PM

Delay Time : 6.00 min.

End Time : 10.80 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\DATA1\5210003.RAW

Result File : C:\TC4\DATA1\5210003.RST

Inst Method : TBTH2O2 from C:\TC4\DATA1\5210003.RST

Proc Method : C:\TC4\METHODS\TBTH2O2.mth

Calib Method : C:\TC4\METHODS\TBTH2O2.mth

Sequence File : C:\TC4\SEQUENCE\15210.SEQ

Sample Volume : 1.0000 ul

Area Reject : 0.000000

Sample Amount : 1.0000

Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

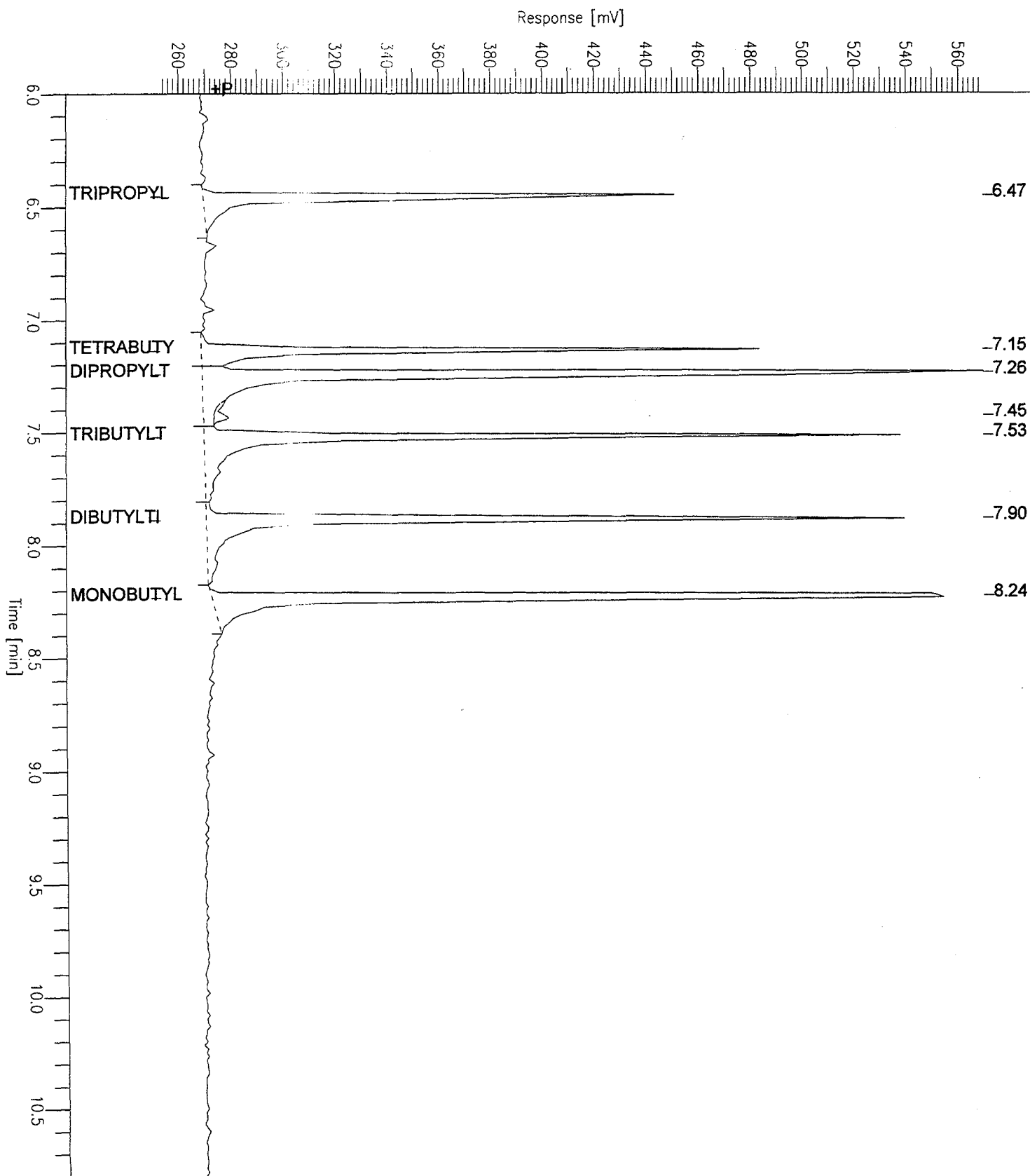
Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)
6.47	Tripropyltin	332264	185456	1.792	400.0000	400.0000
7.15	Tetrabutyltin	331694	214628	1.545	400.0000	400.0000
7.25	Dipropyltin	677234	315526	2.146	400.0000	400.0000
7.45		14862	5883	2.526	0.0149	0.0149
7.53	Tributyltin	482389	268029	1.800	400.0000	400.0000
7.90	Dibutyltin	519272	270656	1.919	400.0000	400.0000
8.24	Monobutyltin	661393	310141	2.133	400.0000	400.0000

# Chromatogram

Sample Name : 400-971110-Autocal  
FileName : C:\TC4\DATA1\5210003.raw  
Method : TBTH202  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 253 mV

Sample #: 3  
Date : 11/10/97 03:25 PM  
Time of Injection: 11/10/97 02:35 PM  
Low Point : 253.15 mV  
Plot Scale: 316.5 mV  
Page 1 of 1  
High Point : 569.60 mV





Software Version: 4.0<4J28>

Date: 11/11/97 09:22 AM

Sample Name : 300-971110-Autocal

Data File : C:\TC4\DATA1\B210004.RAW Date: 11/11/97 09:11 AM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 4 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PPTr
6.20		11259	5771	1.951	0.0113	0.01	1.13
6.47		7816	3558	2.197	0.0078	0.01	0.78
6.55	Tripopyltin	454228	272730	1.665	285.8851	285.89	28588.51
7.05		14820	6339	2.338	0.0148	0.01	1.48
7.23	Tetrabutyltin	444827	276480	1.609	276.1889	276.19	27618.89
7.34	Dipropyltin	927603	414850	2.236	295.4103	295.41	29541.03
7.53		18007	7635	2.358	0.0180	0.02	1.80
7.62	Tributyltin	664357	358787	1.852	378.9662	378.97	37896.62
7.98	Dibutyltin	700050	398400	1.757	278.2871	278.29	27828.71
8.33	Monobutyltin	956684	509693	1.877	262.1385	262.14	26213.85

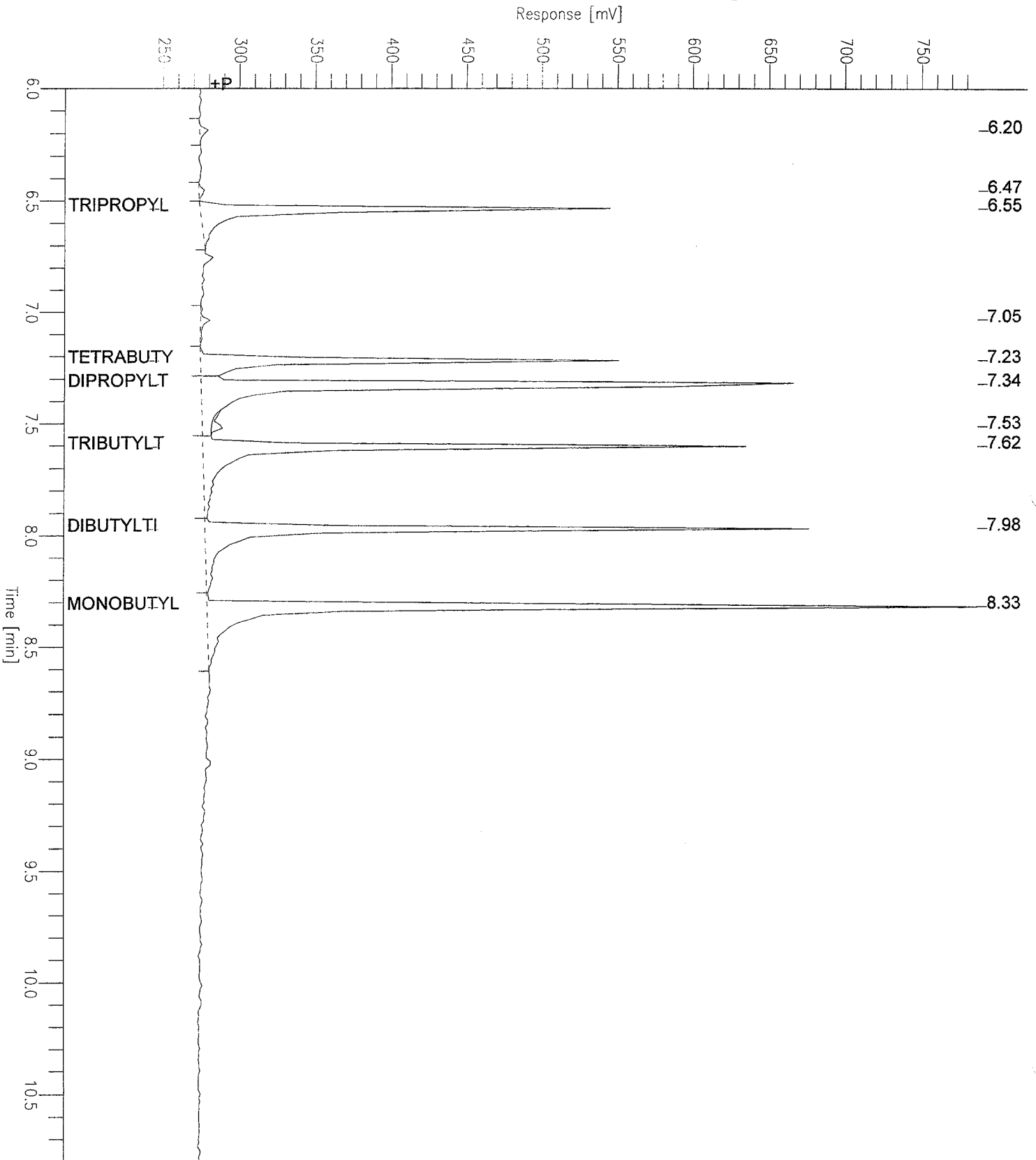
# Chromatogram

Sample Name : 300-971110-Autocal  
FileName : C:\TC4\DATA1\B210004.RAW  
Method :  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 248 mV

Sample #: 4  
Date : 11/11/97 09:22 AM  
Time of Injection: 11/11/97 09:11 AM  
Low Point : 247.70 mV  
Plot Scale: 539.5 mV  
High Point : 787.25 mV

Page 1 of 1



Software Version: 4.0<4J28>

Date: 11/11/97 09:39 AM

Sample Name : Blank

Data File : C:\TC4\DATA1\B210005.RAW Date: 11/11/97 09:27 AM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 5 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PPTr
6.55	Tripopyltin	310469	188431	1.648	197.2864	0.26	26.30
7.05		8212	5579	1.472	0.0082	1.09e-05	0.00
7.33	Dipropyltin	914407	578227	1.581	356.9616	0.48	47.59
8.65		167080	101720	1.643	0.1671	2.23e-04	0.02

# Chromatogram

Sample Name : Blank

FileName : C:\TC4\DATA1\B210005.RAW

Method :

Start Time : 6.00 min

Scale Factor: 1.0

Sample #: 5

Date : 11/11/97 09:39 AM

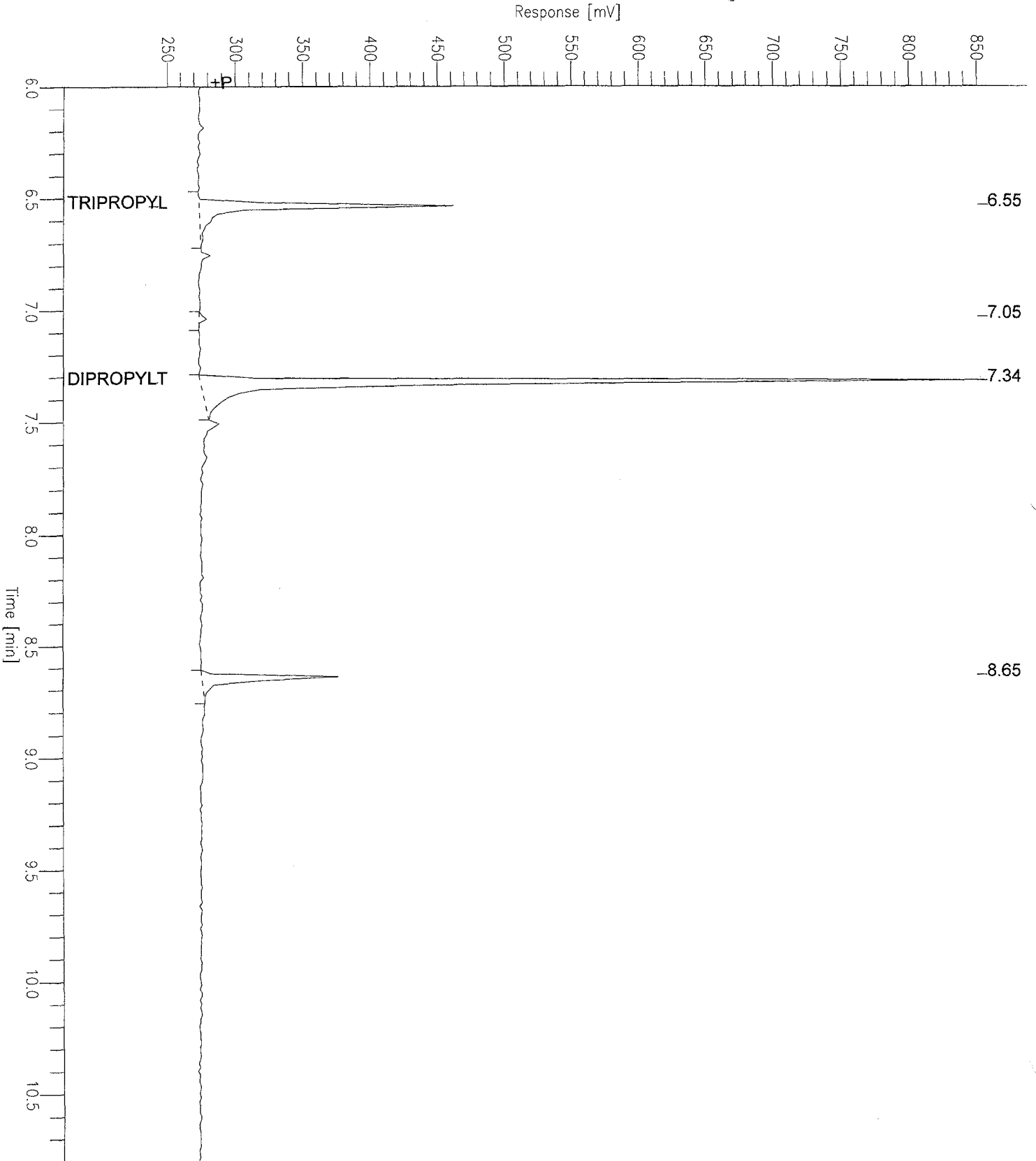
Time of Injection: 11/11/97 09:27 AM

Low Point : 243.52 mV

Plot Offset: 244 mV

Page 1 of 1

High Point : 851.26 mV



Software Version: 4.0<4J28>

Date: 11/11/97 11:11 AM

Sample Name : Blank Spike

Data File : C:\TC4\DATA1\B210006.RAW Date: 11/11/97 11:00 AM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 6 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu$ V·s]	Height [ $\mu$ V]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PPTr
6.20		9377	4214	2.225	0.0094	1.25e-05	0.00
6.55	Tripopyltin	369354	220650	1.674	231.1484	0.31	30.82
7.23	Tetrabutyltin	202595	110022	1.841	113.6739	0.15	15.16
7.34	Dipropyltin	909497	483877	1.880	322.7599	0.43	43.03
7.53		22053	8121	2.715	0.0221	2.94e-05	0.00
7.62	Tributyltin	460935	238703	1.931	248.8138	0.33	33.18
7.99	Dibutyltin	449362	221822	2.026	156.5731	0.21	20.88
8.34	Monobutyltin	391088	194517	2.011	104.4918	0.14	13.93
8.67		1265706	692313	1.828	1.2657	0.00	0.17
9.83		14983	6454	2.322	0.0150	2.00e-05	0.00

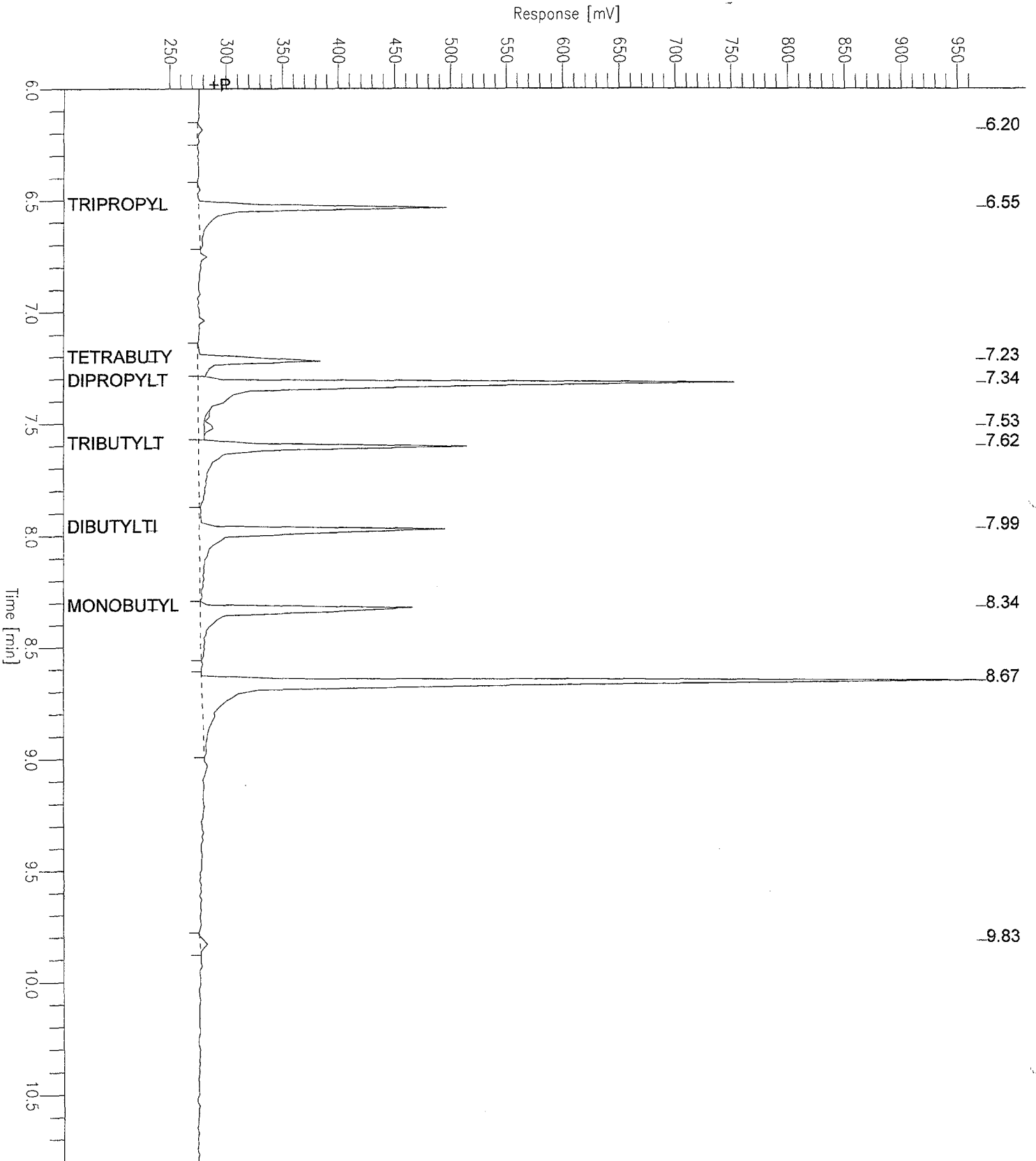
# Chromatogram

Sample Name : Blank Spike  
FileName : C:\TC4\DATA1\B210006.RAW  
Method :  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 240 mV

Sample #: 6  
Date : 11/11/97 11:11 AM  
Time of Injection: 11/11/97 11:00 AM  
Low Point : 240.39 mV  
Plot Scale: 726.8 mV  
High Point : 967.24 mV

Page 1 of 1



Software Version: 4.0<4J28>

Date: 11/11/97 11:28 AM

Sample Name : 15210.01A

Data File : C:\TC4\DATA1\B210007.RAW Date: 11/11/97 11:17 AM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 7 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PFT <sub>r</sub>
6.55	Tripropyltin	233659	145620	1.605	152.2907	0.19	19.16
7.34	Dipropyltin	664320	398941	1.665	283.7097	0.36	35.69
8.65		118046	67694	1.744	0.1180	1.48e-04	0.01

# Chromatogram

Sample Name : 15210.01A

FileName : C:\TC4\DATA1\B210007.RAW

Method :

Start Time : 6.00 min

Scale Factor: 1.0

Sample #: 7

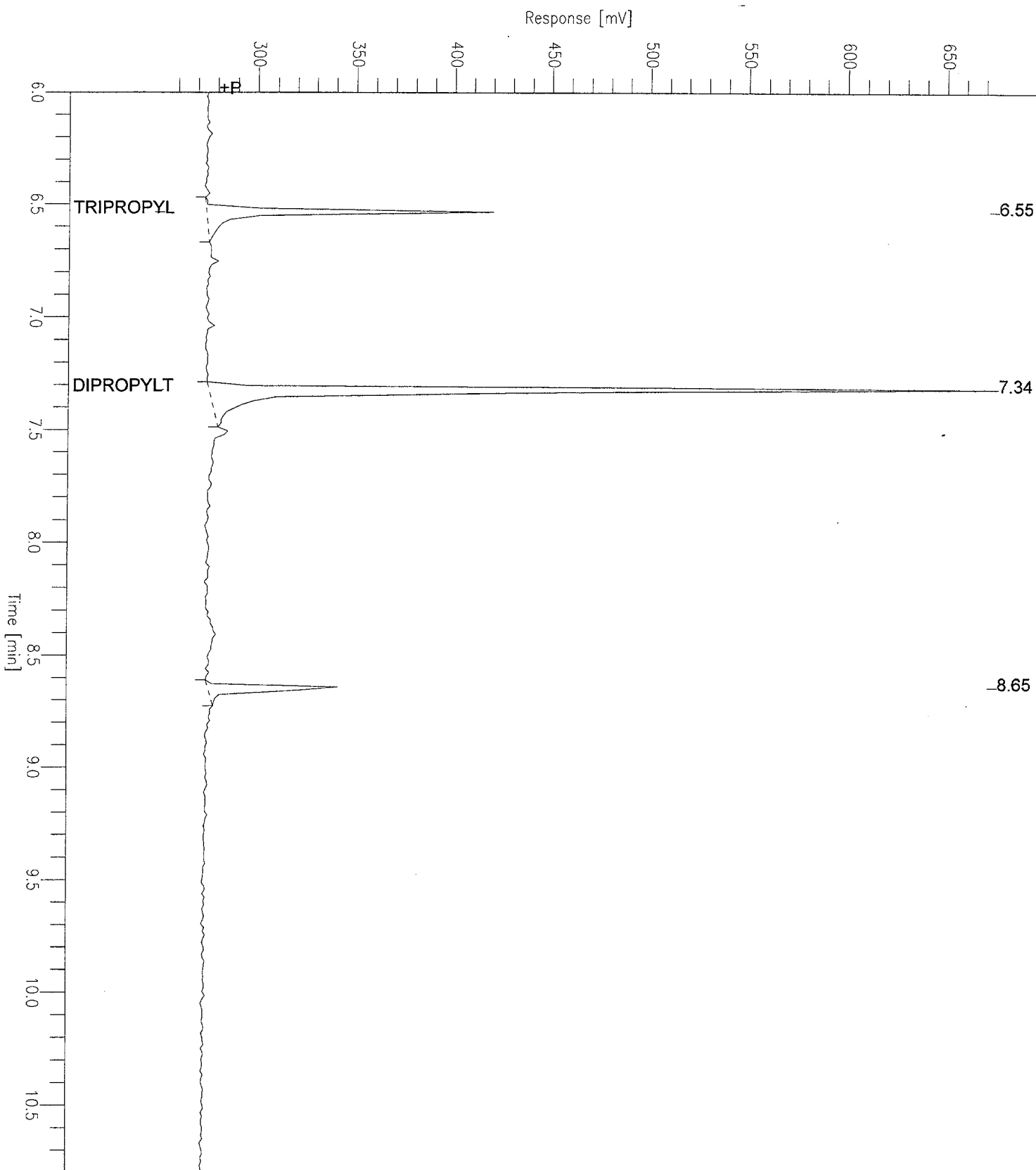
Date : 11/11/97 11:28 AM

Time of Injection: 11/11/97 11:17 AM

Low Point : 253.07 mV

Plot Scale: 418.5 mV

Page 1 of 1





Software Version: 4.0<4J28>

Date: 11/11/97 12:58 PM

Sample Name : 15210.01B Spike

Data File : C:\TC4\DATA1\B210008.RAW Date: 11/11/97 12:44 PM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 8 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

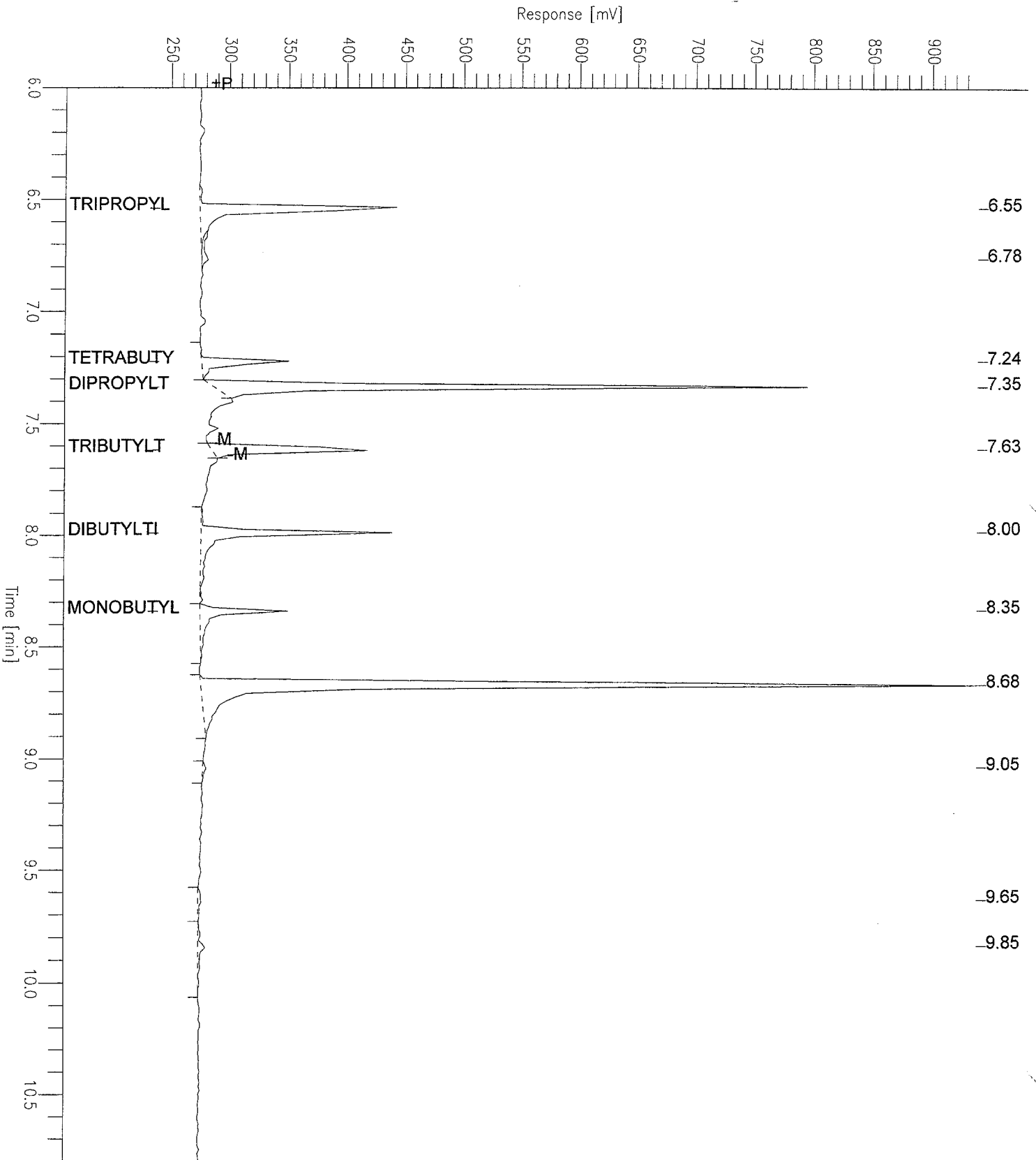
Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PPT <sub>r</sub>
6.55	Tripropyltin	361592	175412	2.061	183.6033	0.49	48.96
6.78		24825	5838	4.253	0.0248	6.62e-05	0.01
7.24	Tetrabutyltin	125627	75635	1.661	80.1019	0.21	21.36
7.35	Dipropyltin	734850	507774	1.447	331.4225	0.88	88.38
7.63	Tributyltin	243150	137159	1.773	138.7563	0.37	37.00
8.00	Dibutyltin	303938	163246	1.862	116.1970	0.31	30.99
8.35	Monobutyltin	142809	74670	1.913	44.5456	0.12	11.88
8.68		1205430	663991	1.815	1.2054	0.00	0.32
9.05		6584	2958	2.225	0.0066	1.76e-05	0.00
9.65		12816	2818	4.548	0.0128	3.42e-05	0.00
9.85		28114	6113	4.599	0.0281	7.50e-05	0.01

# Chromatogram

Sample Name : 15210.01B Spike  
FileName : C:\TC4\DATA1\B210008.RAW  
Method :  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 241 mV

Sample #: 8  
Date : 11/11/97 12:58 PM  
Time of Injection: 11/11/97 12:44 PM  
Low Point : 240.77 mV  
Plot Scale: 698.8 mV  
Page 1 of 1  
High Point : 939.61 mV



Software Version: 4.0<4J28>

Date: 11/11/97 01:30 PM

Sample Name : 15210.01B Spike Dup

Data File : C:\TC4\DATA1\B210009.RAW Date: 11/11/97 01:19 PM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 9 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu\text{V}\cdot\text{s}$ ]	Height [ $\mu\text{V}$ ]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PPTr
6.22		22547	5319	4.239	0.0225	5.57e-05	0.01
6.57	Tripopyltin	328296	198203	1.656	207.5566	0.51	51.25
7.25	Tetrabutyltin	74808	46157	1.621	51.3223	0.13	12.67
7.35	Dipropyltin	845526	501868	1.685	329.2816	0.81	81.30
7.54		10985	7331	1.498	0.0110	2.71e-05	0.00
7.63	Tributyltin	169933	106424	1.597	105.4441	0.26	26.04
8.00	Dibutyltin	157700	82724	1.906	60.6943	0.15	14.99
8.35	Monobutyltin	112166	42055	2.667	27.6745	0.07	6.83
8.68		1125830	633790	1.776	1.1258	0.00	0.28
9.85		6553	3075	2.131	0.0066	1.62e-05	0.00

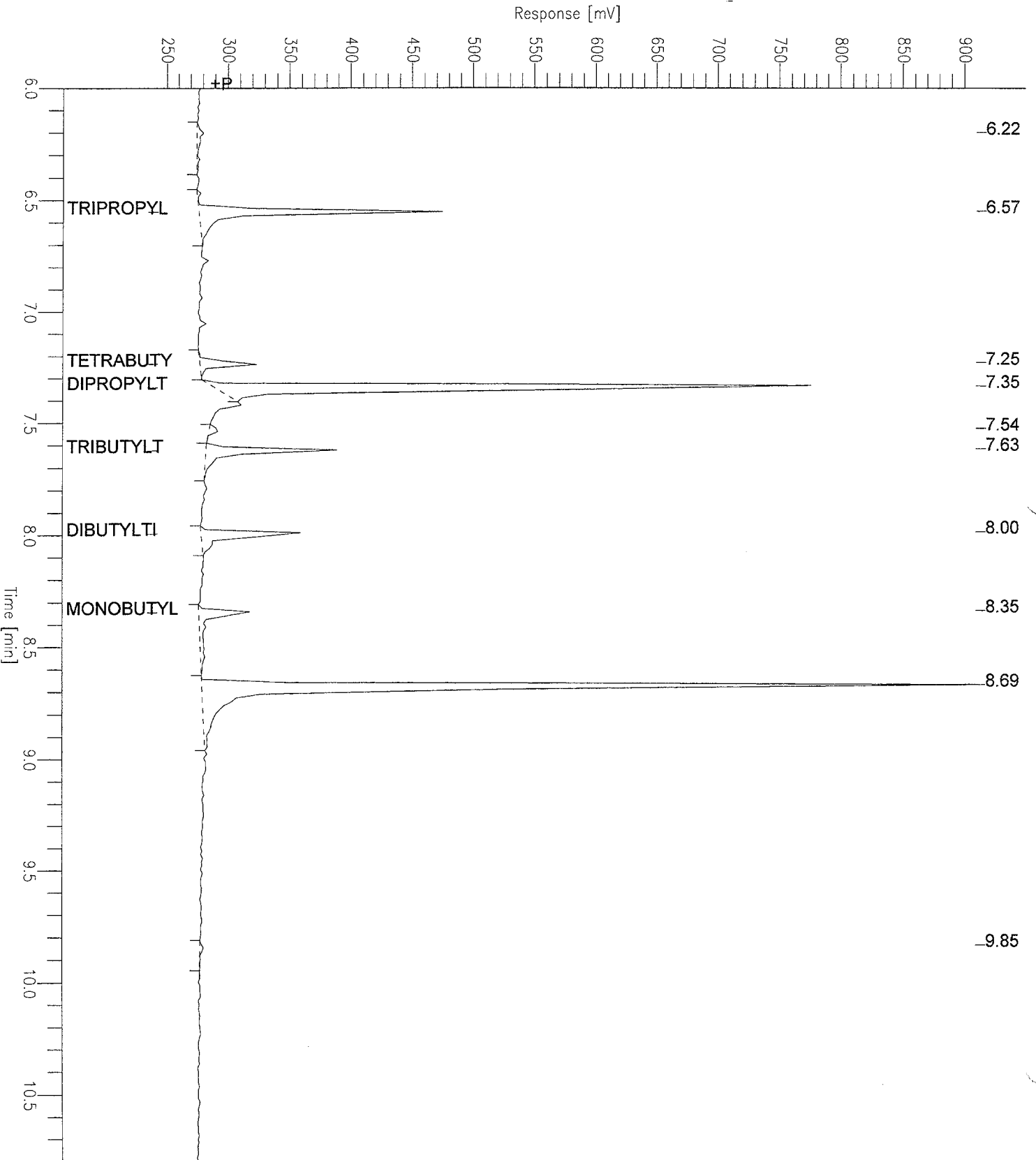
# Chromatogram

Sample Name : 15210.01B Spike Dup  
FileName : C:\TC4\DATA1\B210009.RAW  
Method :  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 243 mV

Sample #: 9  
Date : 11/11/97 01:30 PM  
Time of Injection: 11/11/97 01:19 PM  
Low Point : 243.07 mV  
Plot Scale: 666.6 mV  
High Point : 909.63 mV

Page 1 of 1



Software Version: 4.0<4J28>

Date: 11/11/97 01:47 PM

Sample Name : 300-971110-Autocal

Data File : C:\TC4\DATA1\B210010.RAW Date: 11/11/97 01:35 PM

Sequence File: C:\TC4\SEQUENCE\B15210.SEQ Cycle: 10 Channel : A

Instrument : TBT Rack/Vial: 0/0 Operator: cr

Sample Amount : 1.0000 Dilution Factor : 1.00

=====  
Tributyltin Species Report  
=====

Time [min]	Component Name	Area [ $\mu$ V·s]	Height [ $\mu$ V]	Area/Height [s]	Raw Amount	Adjusted Amount, (ppb)	Raw PPTr
6.48		6325	3399	1.860	0.0063	0.01	0.63
6.57	Tripopyltin	451366	250874	1.799	262.9141	262.91	26291.41
7.07		13332	5786	2.304	0.0133	0.01	1.33
7.24	Tetrabutyltin	434310	199586	2.176	201.1157	201.12	20111.57
7.35	Dipropyltin	904376	509213	1.776	331.9442	331.94	33194.42
7.63	Tributyltin	630790	302552	2.085	318.0167	318.02	31801.67
8.00	Dibutyltin	640521	347918	1.841	243.4907	243.49	24349.07
8.21	Monobutyltin	23845	3788	6.296	2.4924	2.49	249.24
8.35		861938	439348	1.962	0.8619	0.86	86.19

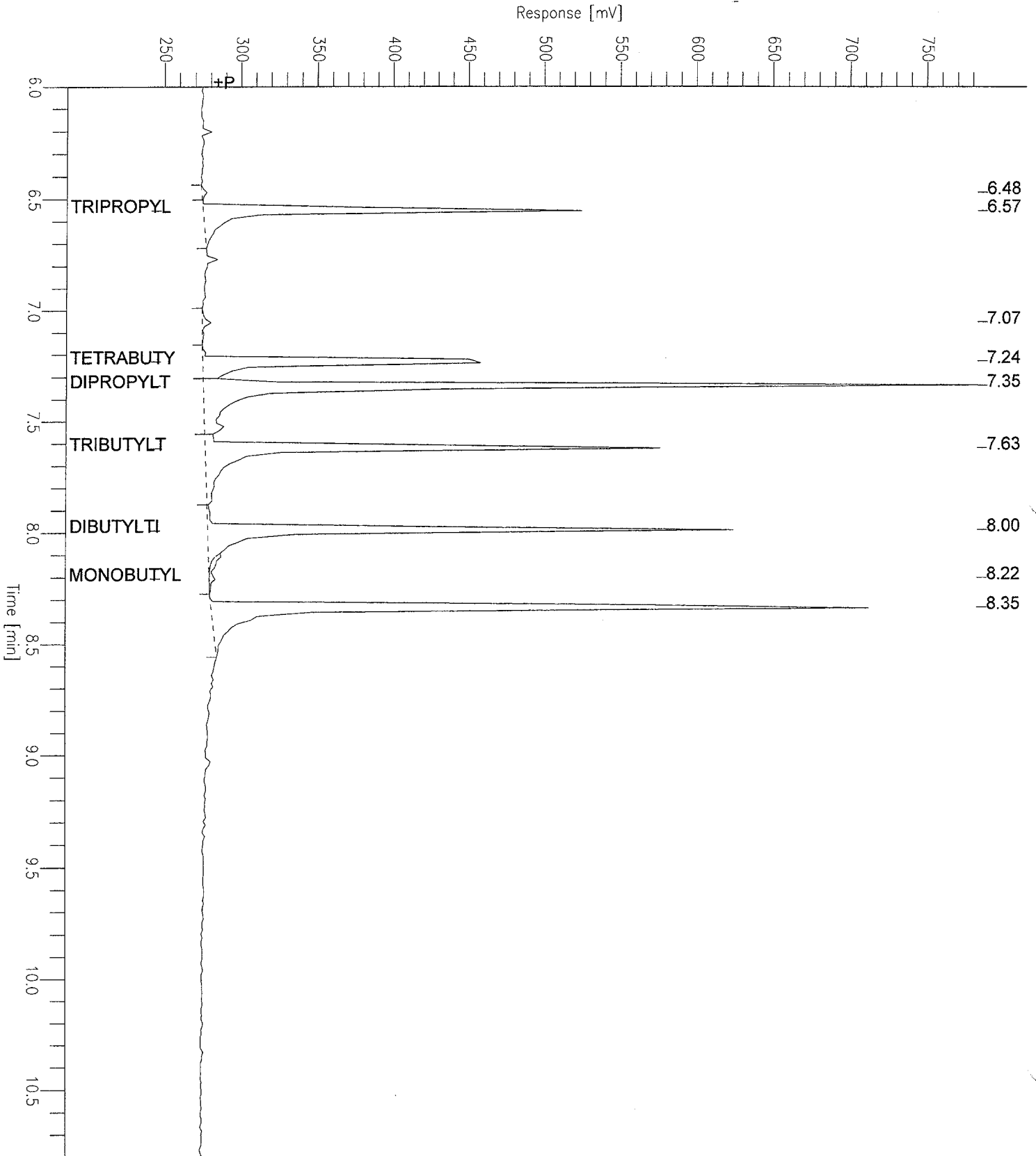
# Chromatogram

Sample Name : 300-971110-Autocal  
FileName : C:\TC4\DATA1\B210010.RAW  
Method :  
Start Time : 6.00 min  
Scale Factor: 1.0

End Time : 10.80 min  
Plot Offset: 248 mV

Sample #: 10  
Date : 11/11/97 01:47 PM  
Time of Injection: 11/11/97 01:35 PM  
Low Point : 248.15 mV  
Plot Scale: 535.2 mV  
High Point : 783.30 mV

Page 1 of 1





**MONTGOMERY WATSON LABORATORIES**

December 5, 1997

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

Attention: Mark Cutler

Re: Report # 38223 (MW-973-126, MW-973-13, MW-973-18, MW-973-19, MW-973-38)

Dear Mark,

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

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

All QC was acceptable

**Samples requiring dilution (with increased MRL's):**

MW-973-18: Calcium, Chloride, Nitrate, Sulfate

**Method blanks with compounds detected:**

None

**Other Comments:**

1,1 Dichloroethane was detected in sample ID: MW-973-18, -19

Chloroform was detected in sample ID: MW-973-18, -19

Tetrachloroethylene was detected in sample ID: MW-973-18, -19

Trichloroethylene was detected in sample ID: MW-973-18, -19

Perchlorate was detected in sample ID: MW-973-18, -19

Sincerely,

Debbie Frank  
Project Manager

cc: Judy Novelly (JPL)

Report Summary of positive results, PR38223

			Result	MDL	UNITS
Analyzed	971027129	MW-973-126			
Analyzed	971027130	MW-973-13			
10/30/97	Alkalinity		135	2.000	MGL
11/08/97	Anion Sum		4.54	.001	MEQL
11/19/97	Bicarbonate as HCO3,calculated		165	.001	MGL
11/05/97	Calcium, Flame AA		51	1.000	MGL
11/19/97	Carbonate as CO3, Calculated		0.068	.001	MGL
11/08/97	Cation Sum		4.610	.001	MEQL
10/28/97	Chloride		22	1.000	MGL
10/28/97	Lab pH		6.8	.001	UNIT
11/01/97	Magnesium, Flame AA		15	1.000	MGL
10/28/97	Nitrate-N by IC		2.2	.100	MGL
11/01/97	Potassium, Flame AA		3.5	1.000	MGL
11/01/97	Sodium, Flame AA		17	1.000	MGL
11/03/97	Specific Conductance		460	4.000	UMHO
10/28/97	Sulfate		51	2.000	MGL
10/30/97	Total Dissolved Solid (TDS)		300	10.000	MGL
Analyzed	971027131	MW-973-18			
10/29/97	1,1-Dichloroethane		1.2	.500	UGL
10/29/97	Chloroform (Trichloromethane)		1.0	.500	UGL
10/29/97	Tetrachloroethylene (PCE)		1.3	.500	UGL
10/29/97	Trichloroethylene (TCE)		4.3	.500	UGL
10/30/97	Alkalinity		200	2.000	MGL
11/08/97	Anion Sum		10.9	.001	MEQL
11/19/97	Bicarbonate as HCO3,calculated		244	.001	MGL
11/05/97	Calcium, Flame AA		115	5.000	MGL
11/19/97	Carbonate as CO3, Calculated		0.100	.001	MGL
11/08/97	Cation Sum		10.300	.001	MEQL
10/28/97	Chloride		92	2.000	MGL
11/17/97	Iron, Total, ICAP/MS		130	*****	UGL
10/28/97	Lab pH		6.8	.001	UNIT
11/01/97	Magnesium, Flame AA		39	1.000	MGL
10/28/97	Nitrate-N by IC		17	.200	MGL
11/17/97	Perchlorate		16	4.000	UGL
11/01/97	Potassium, Flame AA		3.6	1.000	MGL
11/01/97	Sodium, Flame AA		28	1.000	MGL
11/03/97	Specific Conductance		1040	4.000	UMHO
10/28/97	Sulfate		150	4.000	MGL
10/30/97	Total Dissolved Solid (TDS)		660	10.000	MGL
Analyzed	971027132	MW-973-19			
10/29/97	1,1-Dichloroethane		1.2	.500	UGL
10/29/97	Chloroform (Trichloromethane)		1.2	.500	UGL
10/29/97	Tetrachloroethylene (PCE)		1.4	.500	UGL
10/29/97	Trichloroethylene (TCE)		4.4	.500	UGL
11/17/97	Perchlorate		16	4.000	UGL
Analyzed	971027133	MW-973-38			
10/30/97	Alkalinity		210	2.000	MGL



11/08/97	Anion Sum	5.92	.001	MEQL
11/19/97	Bicarbonate as HCO <sub>3</sub> ,calculated	256	.001	MGL
11/05/97	Calcium, Flame AA	66	1.000	MGL
11/19/97	Carbonate as CO <sub>3</sub> , Calculated	0.264	.001	MGL
11/08/97	Cation Sum	6.000	.001	MEQL
10/28/97	Chloride	24	1.000	MGL
11/17/97	Iron, Total, ICAP/MS	110	*****	UGL
10/28/97	Lab pH	7.2	.001	UNIT
11/01/97	Magnesium, Flame AA	19	1.000	MGL
10/28/97	Nitrate-N by IC	0.9	.100	MGL
11/01/97	Potassium, Flame AA	3.7	1.000	MGL
11/01/97	Sodium, Flame AA	24	1.000	MGL
11/03/97	Specific Conductance	560	4.000	UMHO
10/28/97	Sulfate	47	2.000	MGL
10/30/97	Total Dissolved Solid (TDS)	340	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**

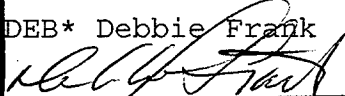
for

Foster Wheeler Environmental, Inc  
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

<b>MONTGOMERY WATSON LABS.</b> SUBMITTED ON  DEC 1 1997  DEB* Debbie Frank 
--

Report#: 38223  
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  
#38223

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

Samples Received  
27-oct-1997 15:30:21

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
<b>MW-973-126 (971027129)      Sampled on 10/27/97</b>								
<b>Regulated VOCs plus Lists 1&amp;3</b>								
10/29/97	68583	( ML/EPA 524.2 )		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,1,1-Trichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,1,2-Trichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,1-Dichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,1-Dichloroethylene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,1-Dichloropropene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,2,3-Trichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,2-Dichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,2-Dichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		1,3-Dichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		2,2-Dichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		2-Butanone (MEK)	ND	ug/l	5.0	1
10/29/97	68583	( ML/EPA 524.2 )		o-Chlorotoluene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		p-Chlorotoluene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
10/29/97	68583	( ML/EPA 524.2 )		Benzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		Bromobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		Chlorobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		Carbon Tetrachloride	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )		Bromoform	ND	ug/l	0.50	1



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Laboratory  
Report  
#38223

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( 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	85	% Rec		
			( Surrogate )	4-Bromofluorobenzene	113	% Rec		
			( Surrogate )	Toluene-d8	102	% Rec		



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Laboratory  
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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
				<b>MW-973-13 (971027130)                      Sampled on 10/27/97</b>				
	10/30/97	68491	( ML/S2320B )	Alkalinity	135	mg/l	2.0	1
	11/08/97		( ML/SM1040 )	Anion Sum	4.54	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	51	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	4.610	meq/l	0.0010	1
	10/28/97	68413	( ML/EPA 300 )	Chloride	22	mg/l	1.0	1
	11/17/97	69247	( MOD/EPA 300 )	Perchlorate	ND	ug/l	4.0	1
	11/19/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.068	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/27/97	68251	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/97		( ML/S2510B )	Specific Conductance	460	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/19/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	165	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	3.5	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	15	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	17	mg/l	1.0	1
	10/28/97	68415	( ML/EPA 300.0 )	Nitrate-N by IC	2.2	mg/l	0.10	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/28/97		( ML/SM 4500H )	Lab pH	6.8	Units	0.0010	1
	10/28/97	68416	( ML/EPA 300.0 )	Sulfate	51	mg/l	2.0	1
	10/30/97	68648	( ML/S2540C )	Total Dissolved Solid (TDS)	300	mg/l	10	1

**Regulated VOCs plus Lists 1&3**

	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	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
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( 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
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None Detected	ND			1
			( Surrogate )	1,2-Dichloroethane-d4	117	% Rec		
			( Surrogate )	4-Bromofluorobenzene	82	% Rec		
			( Surrogate )	Toluene-d8	107	% Rec		

**MW-973-18 (971027131)**

**Sampled on 10/27/97**

	10/30/97	68491	( ML/S2320B )	Alkalinity	200	mg/l	2.0	1
	11/08/97		( ML/SM1040 )	Anion Sum	10.9	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	115	mg/l	5.0	5
	11/08/97		( ML/SM1040 )	Cation Sum	10.300	meq/l	0.0010	1
	10/28/97	68413	( ML/EPA 300 )	Chloride	92	mg/l	2.0	2
	11/17/97	69247	( MOD/EPA 300 )	Perchlorate	16	ug/l	4.0	1
	11/19/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.100	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/27/97	68251	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/97		( ML/S2510B )	Specific Conductance	1040	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	130	ug/l	100	1
	11/19/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	244	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	3.6	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	39	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	28	mg/l	1.0	1
	10/28/97	68415	( ML/EPA 300.0 )	Nitrate-N by IC	17	mg/l	0.20	2



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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/28/97		( ML/SM 4500H )	Lab pH	6.8	Units	0.0010	1
	10/28/97	68416	( ML/EPA 300.0 )	Sulfate	150	mg/l	4.0	2
	10/30/97	68648	( ML/S2540C )	Total Dissolved Solid (TDS)	660	mg/l	10	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	1.2	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1





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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	1.3	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	4.3	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( 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	92	% Rec		
			( Surrogate )	Toluene-d8	102	% Rec		



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Laboratory  
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#38223

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
<b>MW-973-19 (971027132)                      Sampled on 10/27/97</b>								
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/17/97	69247	( MOD/EPA 300 )	Perchlorate	16	ug/l	4.0	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/27/97	68251	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	1.2	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( 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
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	1.2	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	1.4	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	4.4	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None Detected	ND			1
			( Surrogate	1,2-Dichloroethane-d4	111	% Rec		
			( Surrogate	4-Bromofluorobenzene	97	% Rec		



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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			( Surrogate )	Toluene-d8	109	% Rec		
<b>MW-973-38 (971027133)                      Sampled on 10/27/97</b>								
	10/30/97	68491	( ML/S2320B )	Alkalinity	210	mg/l	2.0	1
	11/08/97		( ML/SM1040 )	Anion Sum	5.92	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	66	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	6.000	meq/l	0.0010	1
	10/28/97	68413	( ML/EPA 300 )	Chloride	24	mg/l	1.0	1
	11/17/97	69247	( MOD/EPA 300 )	Perchlorate	ND	ug/l	4.0	1
	11/19/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.264	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/27/97	68251	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/97		( ML/S2510B )	Specific Conductance	560	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	110	ug/l	100	1
	11/19/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	256	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	3.7	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	19	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	24	mg/l	1.0	1
	10/28/97	68415	( ML/EPA 300.0 )	Nitrate-N by IC	0.9	mg/l	0.10	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/28/97		( ML/SM 4500H )	Lab pH	7.2	Units	0.0010	1
	10/28/97	68416	( ML/EPA 300.0 )	Sulfate	47	mg/l	2.0	1
	10/30/97	68648	( ML/S2540C )	Total Dissolved Solid (TDS)	340	mg/l	10	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( 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
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromo chloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( 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
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( 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	94	% Rec		
			( Surrogate )	Toluene-d8	107	% Rec		



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**QC Batch #68251**

**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0513	102.6	( 78.00 - 118.00 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	( 78.00 - 118.00 )	3.8
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0523	104.6	( 80.00 - 120.00 )	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	( 80.00 - 120.00 )	3.7

**QC Batch #68413**

**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.1	104.4	( 90.00 - 110.00 )	
LCS2	Chloride	25	26.1	104.4	( 90.00 - 110.00 )	0.00
MBLK	Chloride	ND				
MS	Chloride	25	25.4	101.6	( 80.00 - 120.00 )	
MSD	Chloride	25	25.4	101.6	( 80.00 - 120.00 )	0.00

**QC Batch #68415**

**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.57	102.8	( 90.00 - 110.00 )	
LCS2	Nitrate-N by IC	2.5	2.57	102.8	( 90.00 - 110.00 )	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.65	106.0	( 90.00 - 110.00 )	
MSD	Nitrate-N by IC	2.5	2.66	106.4	( 90.00 - 110.00 )	0.38

**QC Batch #68416**

**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.3	104.6	( 90.00 - 110.00 )	
LCS2	Sulfate	50	52.4	104.8	( 90.00 - 110.00 )	0.19
MBLK	Sulfate	ND				
MS	Sulfate	50	51.9	103.8	( 70.00 - 130.00 )	
MSD	Sulfate	50	51.9	103.8	( 70.00 - 130.00 )	0.00

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



**MONTGOMERY WATSON LABORATORIES**

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

Laboratory  
QC Report  
#38223

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #68491**

**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.4	101.2	( 90.00 - 110.00 )	
LCS2	Alkalinity	96.2	97.1	100.9	( 90.00 - 110.00 )	0.31
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.2	101.0	( 80.00 - 120.00 )	
MSD	Alkalinity	96.2	98.0	101.9	( 80.00 - 120.00 )	0.82

**QC Batch #68583**

**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.10	102.5	( 70.00 - 130.00 )	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.41	110.2	( 70.00 - 130.00 )	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.29	107.2	( 70.00 - 130.00 )	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.34	108.5	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.18	104.5	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.04	101.0	( 70.00 - 130.00 )	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.38	109.5	( 70.00 - 130.00 )	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.03	100.8	( 70.00 - 130.00 )	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				

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Laboratory  
QC Report  
#38223

Foster Wheeler Environmental, Inc  
(continued)

LCS1	1,3-Dichloropropane	8	8.46	105.8	( 70.00 - 130.00 )
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.05	101.2	( 70.00 - 130.00 )
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.45	111.2	( 70.00 - 130.00 )
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	4.33	108.2	( 70.00 - 130.00 )
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.96	99.0	( 70.00 - 130.00 )
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.34	108.5	( 70.00 - 130.00 )
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.35	108.7	( 70.00 - 130.00 )
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.28	107.0	( 70.00 - 130.00 )
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.48	112.0	( 70.00 - 130.00 )
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.29	107.2	( 70.00 - 130.00 )
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.56	128.0	( 70.00 - 130.00 )
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.26	106.5	( 70.00 - 130.00 )

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

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Laboratory  
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#38223

Foster Wheeler Environmental, Inc  
(continued)

MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.14	103.5	( 70.00 - 130.00 )
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.18	104.5	( 70.00 - 130.00 )
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.16	104.0	( 70.00 - 130.00 )
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane (Freon	4	4.16	104.0	( 70.00 - 130.00 )
MBLK	Trichlorotrifluoroethane (Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.21	110.5	( 70.00 - 130.00 )
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.98	99.5	( 70.00 - 130.00 )
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.03	100.4	( 70.00 - 130.00 )
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.25	106.2	( 70.00 - 130.00 )
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.25	106.2	( 70.00 - 130.00 )
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.35	108.7	( 70.00 - 130.00 )
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.30	107.5	( 70.00 - 130.00 )
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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Laboratory  
QC Report  
#38223

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #68648**

**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	( 85.00 - 115.00 )	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	( 85.00 - 115.00 )	
MBLK	Total Dissolved Solid (TDS)	ND				

**QC Batch #68704**

**Potassium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	21.4	107.0	( 80.00 - 120.00 )	
LCS2	Potassium, Flame AA	20	21.9	109.5	( 80.00 - 120.00 )	2.3
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.6	103.0	( 85.00 - 115.00 )	
MSD	Potassium, Flame AA	20	20.9	104.5	( 85.00 - 115.00 )	1.4

**QC Batch #68707**

**Sodium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	49.8	99.6	( 90.00 - 110.00 )	
LCS2	Sodium, Flame AA	50	48.3	96.6	( 90.00 - 110.00 )	3.1
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	46.7	93.4	( 85.00 - 115.00 )	
MSD	Sodium, Flame AA	50	47.1	94.2	( 85.00 - 115.00 )	0.85

**QC Batch #68710**

**Magnesium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.2	101.0	( 90.00 - 110.00 )	
LCS2	Magnesium, Flame AA	20	18.8	94.0	( 90.00 - 110.00 )	7.2
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	18.8	94.0	( 85.00 - 115.00 )	

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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Laboratory  
QC Report  
#38223

Foster Wheeler Environmental, Inc  
(continued)

MSD Magnesium, Flame AA 20 19.2 96.0 ( 85.00 - 115.00 ) 2.1

**QC Batch #68713**

**Calcium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.4	102.8	( 90.00 - 110.00 )	
LCS2	Calcium, Flame AA	50	51.9	103.8	( 90.00 - 110.00 )	0.97
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.3	94.6	( 85.00 - 115.00 )	
MSD	Calcium, Flame AA	50	47.6	95.2	( 85.00 - 115.00 )	0.63

**QC Batch #69222**

**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0210	105.0	( 85.00 - 115.00 )	
LCS2	Arsenic, Total, GF	0.020	0.0196	98.0	( 85.00 - 115.00 )	6.9
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0202	101.0	( 85.00 - 115.00 )	
MSD	Arsenic, Total, GF	0.020	0.0199	99.5	( 85.00 - 115.00 )	1.5

**QC Batch #69247**

**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	20.9	104.5	( 90.00 - 110.00 )	
LCS2	Perchlorate	20.0	19.4	97.0	( 90.00 - 110.00 )	7.4
MBLK	Perchlorate	ND				
MS	Perchlorate	25.0	26.6	106.4	( 75.00 - 125.00 )	
MSD	Perchlorate	25.0	25.7	102.8	( 75.00 - 125.00 )	3.4

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



**MONTGOMERY WATSON LABORATORIES**

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Laboratory  
QC Report  
#38223

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #69295**

**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	100	100.0	( 70.00 - 130.00 )	
MSD	Chromium, Total, ICAP/MS	100	98.1	98.1	( 70.00 - 130.00 )	1.9

**QC Batch #69296**

**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	478	95.6	( 85.00 - 115.00 )	
LCS2	Iron, Total, ICAP/MS	500	489	97.8	( 85.00 - 115.00 )	2.3
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	515	103.0	( 70.00 - 130.00 )	
MSD	Iron, Total, ICAP/MS	500	521	104.2	( 70.00 - 130.00 )	1.2

**QC Batch #69297**

**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	18.9	94.5	( 85.00 - 115.00 )	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	( 85.00 - 115.00 )	4.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.4	97.0	( 70.00 - 130.00 )	
MSD	Lead, Total, ICAP/MS	20	19	95.0	( 70.00 - 130.00 )	2.1

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**

December 22, 1997

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

Attention: Mark Cutler

Re: Revised Report # 38244 (MW-973-127, MW-973-17, MW-973-01, MW-973-01MS, MW-973-01MSD)

Dear Mark,

Enclosed please find revised data deliverables for the recent JPL project. The volatiles data for sample ID MW-973-01 was revised. The original report contained a PCE hit. The PCE hit was a data entry error. The sample contains Toluene at 1.2.ppb. A detailed quality control (QC) summary follows :

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

All QC was acceptable

**Samples requiring dilution (with increased MRL's):**

None

**Method blanks with compounds detected:**

None

**Other Comments:**

Toluene was detected in sample ID: MW-973-01

m,p-Xylenes were detected in sample ID: MW-973-01

Sincerely,

Debbie Frank  
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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

*Quality Environmental Analysis*

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc 611 Anton Boulevard Suite 800 Costa Mesa, CA 92626 Attn: Mark Cutler	Customer Code: ENSERCH PO#: Sub #SANS94-1162LG Group#: 38244 Project#: JPL Proj Mgr: Debbie Frank Phone: (714) 444-5526
--	--

The following samples were received from you on 10/28/97. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
971028061	MW-973-127	@EBASVOA	Water	10/28/97
971028062	MW-973-17	@EBASVOA AS-GF CR-MS PB-MS TDS CATION ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K-FL NA-FL MG-FL CA-FL CR-VI CLO4	Water	10/28/97
971028063	MW-973-01	@EBASVOA CLO4 CR-VI CA-FL MG-FL NA-FL K-FL FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION CATION TDS PB-MS CR-MS AS-GF	Water	10/28/97
971028064	MW-973-01 MS	@EBASVOA	Water	10/28/97
971028065	MW-973-01 MSD	@EBASVOA	Water	10/28/97

Test Acronym Description

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

---

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

Customer Code: ENSERCH  
PO#: Sub #SANS94-1162LG  
Group#: 38244  
Project#: JPL  
Proj Mgr: Debbie Frank  
Phone: (714) 444-5526

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Test Acronym Description

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Test Acronym	Description
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K-FL	Potassium, Flame AA
MG-FL	Magnesium, Flame AA
NA-FL	Sodium, Flame AA
NO3	Nitrate-N by IC
PB-MS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solids



38244



Temp 8-15  
ICE partially melted

FOSTER WHEELER ENVIRONMENTAL CORPORATION

102 1369

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Project: JPL OFS No. 1572

Project Address: 4800 Oak Grove, Pasadena CA

Sampler (Name): J. Brannan Sampler (Signature): [Signature]

Laboratory: MONTGOMERY LABS

Reports to Be Sent to: MR. MARK CUTLER

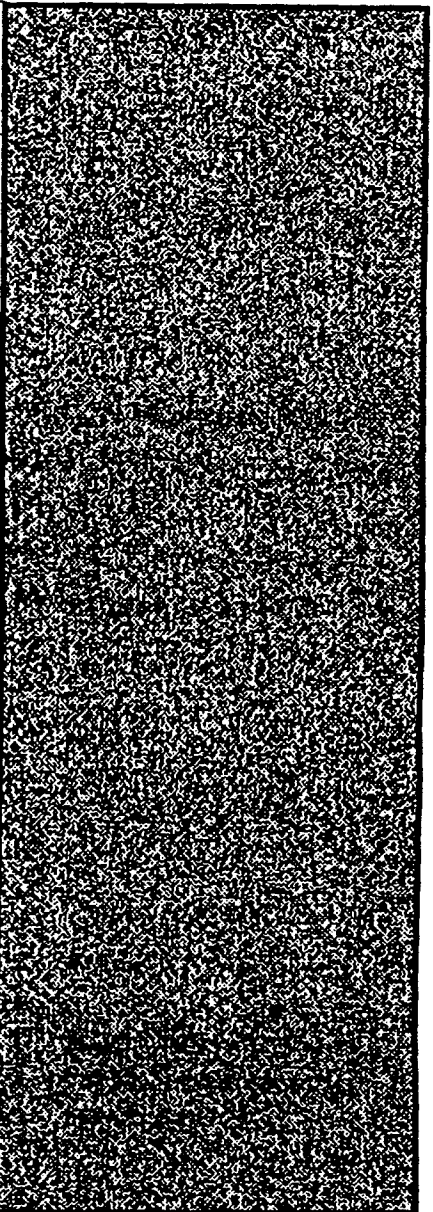
HAZARD IDENTIFICATION: Nonhazard  Reactive   
 Flammable  Toxic   
 Skin Irritant  Infectious

Time Required: NORMAL  \_\_\_\_\_ DAYS  
 RUSH  \_\_\_\_\_ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (BTEX)	TOTAL A.C.T.P.	MADE ANIONS	CFC(VI)	C104					
					WATER	SOIL	OTHER (Describe)										
MW-973-127	0800	10/28/97	2	2x40ml	X			X									97 102 801
MW-973-17	1040		6	2x40ml 1x50ml 2x15ml 1x12	X			X	X	X	X	X					QC SAMPLE 62
MW-973-01	1205		6	2x40ml 1x50ml 2x15ml 1x20ml	X			X	X	X	X	X					63
MW-973-01MS	1205		2	2x40ml	X			X									64
MW-973-01MS	1205		2	2x40ml	X			X									

LABORATORY INSTRUCTIONS/COMMENTS:  
LEVEL III CA/QC



Relinquished by: (Signature)	Date: 10/28/97	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Company:	Time: 11:00	Company:	Company:	Time:	Company:

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: JPL Date Received: 10/22/97  
 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: 10/22/97  
 by (print) WARREN THAM (sign) Warren

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: \_\_\_\_\_  
 If Yes, enter the following: seal date: \_\_\_\_\_, seal name: \_\_\_\_\_

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

4. Were custody papers sealed in bag & taped to lid?  Yes No  
FOR ALL BOTTLES

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: WT (date) 10/22/97

B. LOG-IN PHASE: Date samples were logged-in: 10/22/97 by:  
 (print) WARREN THAM (sign) Warren

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?  
 If NO, indicate discrepancies on back.  Yes No

15. Were correct containers used for the analytes?  Yes No

16. Were correct preservatives used when required?  Yes No

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

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

19. Was Client Services informed of problems?  Yes No  
TRIP BLANK 7654

Report Summary of positive results, PR38244

Result MDL UNITS

Analyzed 971028061 MW-973-127

Analyzed 971028062 MW-973-17

Date	Parameter	Result	MDL	Units
10/30/97	Alkalinity	220	2.000	MGL
11/08/97	Anion Sum	5.98	.001	MEQL
11/19/97	Bicarbonate as HCO <sub>3</sub> ,calculated	268	.001	MGL
11/05/97	Calcium, Flame AA	70	1.000	MGL
11/19/97	Carbonate as CO <sub>3</sub> , Calculated	0.348	.001	MGL
11/08/97	Cation Sum	6.290	.001	MEQL
10/30/97	Chloride	19	1.000	MGL
10/31/97	Lab pH	7.3	.001	UNIT
11/01/97	Magnesium, Flame AA	20	1.000	MGL
11/01/97	Potassium, Flame AA	4.0	1.000	MGL
11/01/97	Sodium, Flame AA	24	1.000	MGL
11/03/97	Specific Conductance	585	4.000	UMHO
10/30/97	Sulfate	50	2.000	MGL
10/30/97	Total Dissolved Solid (TDS)	350	10.000	MGL

Analyzed 971028063 MW-973-01

Date	Parameter	Result	MDL	Units
10/29/97	Toluene	1.2	.500	UGL
10/29/97	m,p-Xylenes	1.3	.500	UGL
10/30/97	Alkalinity	180	2.000	MGL
11/08/97	Anion Sum	5.19	.001	MEQL
11/19/97	Bicarbonate as HCO <sub>3</sub> ,calculated	219	.001	MGL
11/05/97	Calcium, Flame AA	57	1.000	MGL
11/19/97	Carbonate as CO <sub>3</sub> , Calculated	0.713	.001	MGL
11/08/97	Cation Sum	5.480	.001	MEQL
10/30/97	Chloride	19	1.000	MGL
10/31/97	Lab pH	7.7	.001	UNIT
11/01/97	Magnesium, Flame AA	16	1.000	MGL
10/30/97	Nitrate-N by IC	1.4	.100	MGL
11/01/97	Potassium, Flame AA	3.8	1.000	MGL
11/01/97	Sodium, Flame AA	28	1.000	MGL
11/03/97	Specific Conductance	520	4.000	UMHO
10/30/97	Sulfate	46	2.000	MGL
10/30/97	Total Dissolved Solid (TDS)	310	10.000	MGL

Analyzed 971028064 MW-973-01 MS

Date	Parameter	Result	MDL	Units
10/29/97	1,1-Dichloroethylene	4.07	.500	UGL
10/29/97	1,2,4-Trichlorobenzene	3.61	.500	UGL
10/29/97	Benzene	3.76	.500	UGL
10/29/97	Chlorobenzene	3.94	.500	UGL
10/29/97	Chloroform (Trichloromethane)	4.21	.500	UGL
10/29/97	Toluene	4.16	.500	UGL
10/29/97	Trichloroethylene (TCE)	4.08	.500	UGL
10/29/97	p-Chlorotoluene	3.76	.500	UGL
10/29/97	p-Dichlorobenzene (1,4-DCB)	3.79	.500	UGL

Analyzed 971028065 MW-973-01 MSD

Date	Parameter	Result	MDL	Units
10/29/97	1,1-Dichloroethylene	4.18	.500	UGL
10/29/97	1,2,4-Trichlorobenzene	3.81	.500	UGL

10/29/97	Benzene	3.97	.500	UGL
10/29/97	Chlorobenzene	3.95	.500	UGL
10/29/97	Chloroform (Trichloromethane)	4.13	.500	UGL
10/29/97	Toluene	4.20	.500	UGL
10/29/97	Trichloroethylene (TCE)	3.96	.500	UGL
10/29/97	p-Chlorotoluene	3.55	.500	UGL
10/29/97	p-Dichlorobenzene (1,4-DCB)	3.82	.500	UGL



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**REVISED**

**Laboratory Report**

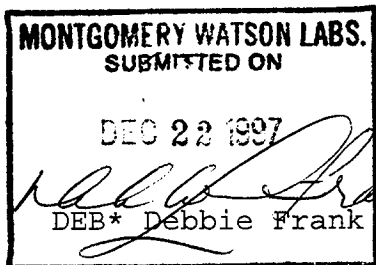
for

Foster Wheeler Environmental, Inc  
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



Report#: 38244  
JPL



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Laboratory  
Report  
#38244

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

Samples Received  
28-oct-1997 16:01:31

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
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MW-973-127 (971028061)      Sampled on 10/28/97

**Regulated VOCs plus Lists 1&3**

10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1



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Laboratory  
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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Vinyl chloride (VC)	ND	ug/l	0.30	1
			( EPA 524.2 )	None Detected	ND			1
			( Surrogate )	1,2-Dichloroethane-d4	103	% Rec		
			( Surrogate )	4-Bromofluorobenzene	102	% Rec		
			( Surrogate )	Toluene-d8	108	% Rec		



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Laboratory  
Report  
#38244

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
<b>MW-973-17 (971028062)                      Sampled on 10/28/97</b>								
	10/30/97	68491	( ML/S2320B )	Alkalinity	220	mg/l	2.0	1
	11/08/97		( ML/SM1040 )	Anion Sum	5.98	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	70	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	6.290	meq/l	0.0010	1
	10/30/97	68484	( ML/EPA 300 )	Chloride	19	mg/l	1.0	1
	11/17/97	69247	( MOD/EPA 300 )	Perchlorate	ND	ug/l	4.0	1
	11/19/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.348	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/28/97	68296	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/97		( ML/S2510B )	Specific Conductance	585	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/19/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	268	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	4.0	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	20	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	24	mg/l	1.0	1
	10/30/97	68486	( ML/EPA 300.0 )	Nitrate-N by IC	ND	mg/l	0.10	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/31/97		( ML/SM 4500H )	Lab pH	7.3	Units	0.0010	1
	10/30/97	68487	( ML/EPA 300.0 )	Sulfate	50	mg/l	2.0	1
	10/30/97	68648	( ML/S2540C )	Total Dissolved Solid (TDS)	350	mg/l	10	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1



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Laboratory  
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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( 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
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/29/97	68583	( 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	96	% Rec		
			( Surrogate )	Toluene-d8	103	% Rec		

**MW-973-01 (971028063)                      Sampled on 10/28/97**

	10/30/97	68491	( ML/S2320B )	Alkalinity	180	mg/l	2.0	1
	11/08/97		( ML/SM1040 )	Anion Sum	5.19	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	57	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	5.480	meq/l	0.0010	1
	10/30/97	68484	( ML/EPA 300 )	Chloride	19	mg/l	1.0	1
	11/17/97	69247	( MOD/EPA 300 )	Perchlorate	ND	ug/l	4.0	1
	11/19/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.713	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/28/97	68296	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/97		( ML/S2510B )	Specific Conductance	520	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/19/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	219	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	3.8	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	16	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	28	mg/l	1.0	1
	10/30/97	68486	( ML/EPA 300.0 )	Nitrate-N by IC	1.4	mg/l	0.10	1



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**Laboratory  
Report  
#38244**

Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/31/97		( ML/SM 4500H )	Lab pH	7.7	Units	0.0010	1
	10/30/97	68487	( ML/EPA 300.0 )	Sulfate	46	mg/l	2.0	1
	10/30/97	68648	( ML/S2540C )	Total Dissolved Solid (TDS)	310	mg/l	10	1
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/29/97	68583	( 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
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	1.3	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Napthalene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	1.2	ug/l	0.50	1
	10/29/97	68583	( 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	95	% Rec		
			( Surrogate	Toluene-d8	101	% Rec		



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

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-01 MS (971028064)				Sampled on 10/28/97				
<b>Regulated VOCs plus Lists 1&amp;3</b>								
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	4.07	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	3.61	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	3.79	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	NA	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	3.76	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	10/29/97	68583	( ML/EPA 524.2 )	Benzene	3.76	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	3.94	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromoform	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	4.21	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	NA	ug/l	0.50	1



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Foster Wheeler Environmental, Inc  
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Styrene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	4.08	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Toluene	4.16	ug/l	0.50	1
	10/29/97	68583	( ML/EPA 524.2 )	Vinyl chloride (VC)	NA	ug/l	0.30	1
			( Surrogate )	1,2-Dichloroethane-d4	105	% Rec		
			( Surrogate )	4-Bromofluorobenzene	98	% Rec		
			( Surrogate )	Toluene-d8	101	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-01 MSD (971028065)                      Sampled on 10/28/97								
Regulated VOCs plus Lists 1&3								
10/29/97	68583	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,1,1-Trichloroethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,1,2-Trichloroethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloroethylene	4.18	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,1-Dichloropropene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,2,3-Trichloropropane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	3.81	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloroethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,2-Dichloropropane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	1,3-Dichloropropane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	3.82	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	2,2-Dichloropropane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	2-Butanone (MEK)	NA	ug/l	5.0	1	
10/29/97	68583	( ML/EPA 524.2 )	o-Chlorotoluene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	p-Chlorotoluene	3.55	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1	
10/29/97	68583	( ML/EPA 524.2 )	Benzene	3.97	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Bromobenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Chlorobenzene	3.95	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Carbon Tetrachloride	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Bromoform	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	4.13	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Bromochloromethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Chloroethane	NA	ug/l	0.50	1	

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
10/29/97	68583	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Chlorodibromomethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Dibromomethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Bromodichloromethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Dichloromethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Ethyl benzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Dichlorodifluoromethane	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Hexachlorobutadiene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Isopropylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	m,p-Xylenes	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Naphthalene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	n-Butylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	n-Propylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	o-Xylene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	p-Isopropyltoluene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	sec-Butylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Styrene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	tert-Butylbenzene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Trichloroethylene (TCE)	3.96	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	NA	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Toluene	4.20	ug/l	0.50	1	
10/29/97	68583	( ML/EPA 524.2 )	Vinyl chloride (VC)	NA	ug/l	0.30	1	
		( Surrogate )	1,2-Dichloroethane-d4	109	‰ Rec			
		( Surrogate )	4-Bromofluorobenzene	97	‰ Rec			
		( Surrogate )	Toluene-d8	100	‰ Rec			



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Laboratory  
 QC Report  
 #38244

Foster Wheeler Environmental, Inc

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**QC Batch #68296****Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0492	98.4	( 78.00 - 118.00 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0484	96.8	( 78.00 - 118.00 )	1.6
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0467	93.4	( 80.00 - 120.00 )	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	( 80.00 - 120.00 )	6.8

**QC Batch #68484****Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	( 90.00 - 110.00 )	
LCS2	Chloride	25	26.0	104.0	( 90.00 - 110.00 )	0.00
MBLK	Chloride	ND				
MS	Chloride	25	25.9	103.6	( 80.00 - 120.00 )	
MSD	Chloride	25	25.9	103.6	( 80.00 - 120.00 )	0.00

**QC Batch #68486****Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.55	102.0	( 90.00 - 110.00 )	
LCS2	Nitrate-N by IC	2.5	2.54	101.6	( 90.00 - 110.00 )	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.29	91.6	( 90.00 - 110.00 )	
MSD	Nitrate-N by IC	2.5	2.29	91.6	( 90.00 - 110.00 )	0.00

**QC Batch #68487****Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.3	104.6	( 90.00 - 110.00 )	
LCS2	Sulfate	50	52.2	104.4	( 90.00 - 110.00 )	0.19
MBLK	Sulfate	ND				
MS	Sulfate	50	53.2	106.4	( 70.00 - 130.00 )	
MSD	Sulfate	50	53.1	106.2	( 70.00 - 130.00 )	0.19

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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(continued)

**QC Batch #68491**

**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.4	101.2	( 90.00 - 110.00 )	
LCS2	Alkalinity	96.2	97.1	100.9	( 90.00 - 110.00 )	0.31
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.2	101.0	( 80.00 - 120.00 )	
MSD	Alkalinity	96.2	98.0	101.9	( 80.00 - 120.00 )	0.82

**QC Batch #68583**

**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.10	102.5	( 70.00 - 130.00 )	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.41	110.2	( 70.00 - 130.00 )	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.29	107.2	( 70.00 - 130.00 )	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.34	108.5	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.18	104.5	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.04	101.0	( 70.00 - 130.00 )	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.38	109.5	( 70.00 - 130.00 )	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.03	100.8	( 70.00 - 130.00 )	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	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)

LCS1	1,3-Dichloropropane	8	8.46	105.8	( 70.00 - 130.00 )
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.05	101.2	( 70.00 - 130.00 )
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.45	111.2	( 70.00 - 130.00 )
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	4.33	108.2	( 70.00 - 130.00 )
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.96	99.0	( 70.00 - 130.00 )
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.34	108.5	( 70.00 - 130.00 )
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.35	108.7	( 70.00 - 130.00 )
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.28	107.0	( 70.00 - 130.00 )
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.48	112.0	( 70.00 - 130.00 )
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.29	107.2	( 70.00 - 130.00 )
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.56	128.0	( 70.00 - 130.00 )
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.26	106.5	( 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.

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Foster Wheeler Environmental, Inc  
(continued)

MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.14	103.5	( 70.00 - 130.00 )
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.18	104.5	( 70.00 - 130.00 )
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.16	104.0	( 70.00 - 130.00 )
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane (Freon	4	4.16	104.0	( 70.00 - 130.00 )
MBLK	Trichlorotrifluoroethane (Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.21	110.5	( 70.00 - 130.00 )
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.98	99.5	( 70.00 - 130.00 )
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.03	100.4	( 70.00 - 130.00 )
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.25	106.2	( 70.00 - 130.00 )
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.25	106.2	( 70.00 - 130.00 )
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.35	108.7	( 70.00 - 130.00 )
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.30	107.5	( 70.00 - 130.00 )
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	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)

**QC Batch #68648**

**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	( 85.00 - 115.00 )	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	( 85.00 - 115.00 )	
MBLK	Total Dissolved Solid (TDS)	ND				

**QC Batch #68704**

**Potassium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	21.4	107.0	( 80.00 - 120.00 )	
LCS2	Potassium, Flame AA	20	21.9	109.5	( 80.00 - 120.00 )	2.3
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.6	103.0	( 85.00 - 115.00 )	
MSD	Potassium, Flame AA	20	20.9	104.5	( 85.00 - 115.00 )	1.4

**QC Batch #68707**

**Sodium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	49.8	99.6	( 90.00 - 110.00 )	
LCS2	Sodium, Flame AA	50	48.3	96.6	( 90.00 - 110.00 )	3.1
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	46.7	93.4	( 85.00 - 115.00 )	
MSD	Sodium, Flame AA	50	47.1	94.2	( 85.00 - 115.00 )	0.85

**QC Batch #68710**

**Magnesium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.2	101.0	( 90.00 - 110.00 )	
LCS2	Magnesium, Flame AA	20	18.8	94.0	( 90.00 - 110.00 )	7.2
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	18.8	94.0	( 85.00 - 115.00 )	

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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Laboratory  
QC Report  
#38244

Foster Wheeler Environmental, Inc  
(continued)

MSD Magnesium, Flame AA 20 19.2 96.0 ( 85.00 - 115.00 ) 2.1

**QC Batch #68713**

**Calcium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.4	102.8	( 90.00 - 110.00 )	
LCS2	Calcium, Flame AA	50	51.9	103.8	( 90.00 - 110.00 )	0.97
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.3	94.6	( 85.00 - 115.00 )	
MSD	Calcium, Flame AA	50	47.6	95.2	( 85.00 - 115.00 )	0.63

**QC Batch #69222**

**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0210	105.0	( 85.00 - 115.00 )	
LCS2	Arsenic, Total, GF	0.020	0.0196	98.0	( 85.00 - 115.00 )	6.9
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0202	101.0	( 85.00 - 115.00 )	
MSD	Arsenic, Total, GF	0.020	0.0199	99.5	( 85.00 - 115.00 )	1.5

**QC Batch #69247**

**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	20.9	104.5	( 90.00 - 110.00 )	
LCS2	Perchlorate	20.0	19.4	97.0	( 90.00 - 110.00 )	7.4
MBLK	Perchlorate	ND				
MS	Perchlorate	25.0	26.6	106.4	( 75.00 - 125.00 )	
MSD	Perchlorate	25.0	25.7	102.8	( 75.00 - 125.00 )	3.4

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 #69295**

**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	100	100.0	( 70.00 - 130.00 )	
MSD	Chromium, Total, ICAP/MS	100	98.1	98.1	( 70.00 - 130.00 )	1.9

**QC Batch #69296**

**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	478	95.6	( 85.00 - 115.00 )	
LCS2	Iron, Total, ICAP/MS	500	489	97.8	( 85.00 - 115.00 )	2.3
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	515	103.0	( 70.00 - 130.00 )	
MSD	Iron, Total, ICAP/MS	500	521	104.2	( 70.00 - 130.00 )	1.2

**QC Batch #69297**

**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	18.9	94.5	( 85.00 - 115.00 )	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	( 85.00 - 115.00 )	4.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.4	97.0	( 70.00 - 130.00 )	
MSD	Lead, Total, ICAP/MS	20	19	95.0	( 70.00 - 130.00 )	2.1

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

December 4, 1997

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

Attention: Mark Cutler

Re: Report # 38292 (MW-973-128, MW-973-15)

Dear Mark,

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

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

All QC was acceptable

**Samples requiring dilution (with increased MRL's):**

MW-973-15 Trichloroethylene, Carbon Tetrachloride, Perchlorate

**Method blanks with compounds detected:**

None

**Other Comments:**

Multiple VOC's were detected in sample ID: MW-973-15

**list of VOC's:** 1,1 Dichloroethylene, 1,2-Dichloroethane, Carbon Tetrachloride, Chloroform, Tetrachloroethylene, Trichloroethylene, Trichlorotrifluoroethane

Chromium was detected in sample ID: MW-973-15

Perchlorate was detected in sample ID: MW-973-15

Multiple VOC's were detected in sample ID: MW-973-129

**List of VOC's:** 1,1,1,2 Tetrachloroethane, 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, Benzene, Bromodichloromethane, Bromoform, Carbon Tetrachloride, Chlorobenzene, Tetrachloroethylene, Toluene, Trichloroethylene, m,p-Xylene, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene

Sincerely,

Debbie Frank  
Project Manager

cc: Judy Novelly (JPL)





**MONTGOMERY WATSON LABORATORIES**

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**Laboratory Report**

for

Foster Wheeler Environmental, Inc  
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

<b>MONTGOMERY WATSON LABS.</b> SUBMITTED ON
DEC 1 1997
DEB* Debbie Frank <i>Debbie Frank</i>

Report#: 38292  
JPL



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Laboratory  
Report  
#38292

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

Samples Received  
29-oct-1997 16:27:04

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
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W-973-128 (971029153)      Sampled on 10/29/97

**Regulated VOCs plus Lists 1&3**

10/30/97	68699	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,1-Dichloroethylene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,2-Dichloroethane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
10/30/97	68699	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
10/30/97	68699	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	Carbon Tetrachloride	ND	ug/l	0.50	1
10/30/97	68699	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
10/30/97	68699	( 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
10/30/97	68699	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	n-Propylbenzene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Trichloroethylene (TCE)	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1	
10/30/97	68699	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1	
10/30/97	68699	( 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	98	%	Rec		
		( Surrogate	Toluene-d8	107	%	Rec		



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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
				<b>Sampled on 10/29/97</b>				
	10/30/97	68491	( ML/S2320B )	Alkalinity	145	mg/l	2.0	1
	11/08/97		( ML/SM1040 )	Anion Sum	4.89	meq/l	0.0010	1
11/06/97	11/14/97	69222	( S3113B/E200.9 )	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/05/97	68713	( ML/S3111B )	Calcium, Flame AA	55	mg/l	1.0	1
	11/08/97		( ML/SM1040 )	Cation Sum	4.930	meq/l	0.0010	1
	10/30/97	68484	( ML/EPA 300 )	Chloride	22	mg/l	1.0	1
	11/18/97	69247	( MOD/EPA 300 )	Perchlorate	550	ug/l	80	20
	11/19/97		( ML/S2320-B )	Carbonate as CO3, Calculated	0.458	mg/l	0.0010	1
11/06/97	11/17/97	69295	( EPA/MS 200.8 )	Chromium, Total, ICAP/MS	18	ug/l	10	1
	10/29/97	68418	( ML/SW 7196 )	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/97		( ML/S2510B )	Specific Conductance	485	umho/cm	4.0	1
11/06/97	11/17/97	69296	( EPA/ML 200.8 )	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/19/97		( ML/S2320B )	Bicarbonate as HCO3,calculated	177	mg/l	0.0010	1
	11/01/97	68704	( ML/S3111B )	Potassium, Flame AA	3.0	mg/l	1.0	1
	11/01/97	68710	( ML/S3111B )	Magnesium, Flame AA	16	mg/l	1.0	1
	11/01/97	68707	( ML/S3111B )	Sodium, Flame AA	18	mg/l	1.0	1
	10/30/97	68486	( ML/EPA 300.0 )	Nitrate-N by IC	6.3	mg/l	0.10	1
11/06/97	11/17/97	69297	( EPA/ML 200.8 )	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	10/31/97		( ML/SM 4500H )	Lab pH	7.6	Units	0.0010	1
	10/30/97	68487	( ML/EPA 300.0 )	Sulfate	44	mg/l	2.0	1
	10/30/97	68648	( ML/S2540C )	Total Dissolved Solid (TDS)	320	mg/l	10	1

**Regulated VOCs plus Lists 1&3**

	10/30/97	68699	( ML/EPA 524.2 )	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,1-Dichloroethylene	1.3	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/97	68699	( 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
	10/30/97	68699	( ML/EPA 524.2 )	1,2-Dichloroethane	0.9	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/97	68699	( ML/EPA 524.2 )	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/97	68699	( ML/EPA 524.2 )	Benzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Bromobenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Chlorobenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Carbon Tetrachloride	93	ug/l	5.0	10
	10/30/97	68699	( ML/EPA 524.2 )	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Bromoform	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Chloroform (Trichloromethane)	13	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Bromochloromethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Chloroethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Dibromomethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Dichloromethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Ethyl benzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Naphthalene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/97	68699	( 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
	10/30/97	68699	( ML/EPA 524.2 )	o-Xylene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Tetrachloroethylene (PCE)	1.1	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Styrene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Trichloroethylene (TCE)	22	ug/l	5.0	10
	10/30/97	68699	( ML/EPA 524.2 )	Trichlorotrifluoroethane(Freon)	4.7	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/97	68699	( ML/EPA 524.2 )	Toluene	ND	ug/l	0.50	1
	10/30/97	68699	( 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	µg Rec		
			( Surrogate )	4-Bromofluorobenzene	103	µg Rec		
			( Surrogate )	Toluene-d8	103	µg Rec		



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**QC Batch #68418**

**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	( 78.00 - 118.00 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0490	98.0	( 78.00 - 118.00 )	2.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0510	102.0	( 80.00 - 120.00 )	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0520	104.0	( 80.00 - 120.00 )	1.9

**QC Batch #68484**

**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	( 90.00 - 110.00 )	
LCS2	Chloride	25	26.0	104.0	( 90.00 - 110.00 )	0.00
MBLK	Chloride	ND				
MS	Chloride	25	25.9	103.6	( 80.00 - 120.00 )	
MSD	Chloride	25	25.9	103.6	( 80.00 - 120.00 )	0.00

**QC Batch #68486**

**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.55	102.0	( 90.00 - 110.00 )	
LCS2	Nitrate-N by IC	2.5	2.54	101.6	( 90.00 - 110.00 )	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.29	91.6	( 90.00 - 110.00 )	
MSD	Nitrate-N by IC	2.5	2.29	91.6	( 90.00 - 110.00 )	0.00

**QC Batch #68487**

**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.3	104.6	( 90.00 - 110.00 )	
LCS2	Sulfate	50	52.2	104.4	( 90.00 - 110.00 )	0.19
MBLK	Sulfate	ND				
MS	Sulfate	50	53.2	106.4	( 70.00 - 130.00 )	
MSD	Sulfate	50	53.1	106.2	( 70.00 - 130.00 )	0.19

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 #68491**

**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.4	101.2	( 90.00 - 110.00 )	
LCS2	Alkalinity	96.2	97.1	100.9	( 90.00 - 110.00 )	0.31
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.2	101.0	( 80.00 - 120.00 )	
MSD	Alkalinity	96.2	98.0	101.9	( 80.00 - 120.00 )	0.82

**QC Batch #68648**

**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	( 85.00 - 115.00 )	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	( 85.00 - 115.00 )	
MBLK	Total Dissolved Solid (TDS)	ND				

**QC Batch #68699**

**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.99	99.8	( 70.00 - 130.00 )	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.31	107.7	( 70.00 - 130.00 )	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.48	112.0	( 70.00 - 130.00 )	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.54	113.5	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.20	105.0	( 70.00 - 130.00 )	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				

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



**MONTGOMERY WATSON LABORATORIES**

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

Laboratory  
QC Report  
#38292

Foster Wheeler Environmental, Inc  
(continued)

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LCS1	1,2,4-Trichlorobenzene	4	4.12	103.0	( 70.00 - 130.00 )
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.41	110.2	( 70.00 - 130.00 )
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.94	98.5	( 70.00 - 130.00 )
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	8.41	105.1	( 70.00 - 130.00 )
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.93	98.2	( 70.00 - 130.00 )
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.34	108.5	( 70.00 - 130.00 )
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	4.19	104.8	( 70.00 - 130.00 )
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.88	97.0	( 70.00 - 130.00 )
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.28	107.0	( 70.00 - 130.00 )
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	4.07	101.8	( 70.00 - 130.00 )
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.34	108.5	( 70.00 - 130.00 )
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.34	108.5	( 70.00 - 130.00 )
MBLK	Dichloromethane	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  
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#38292

Foster Wheeler Environmental, Inc  
(continued)

LCS1	Ethyl benzene	4	4.22	105.5	( 70.00 - 130.00 )
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.57	128.5	( 70.00 - 130.00 )
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.22	105.5	( 70.00 - 130.00 )
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.98	99.5	( 70.00 - 130.00 )
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.19	104.8	( 70.00 - 130.00 )
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.09	102.2	( 70.00 - 130.00 )
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.14	103.5	( 70.00 - 130.00 )
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.17	108.5	( 70.00 - 130.00 )
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.98	99.5	( 70.00 - 130.00 )
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.36	104.5	( 70.00 - 130.00 )
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.16	104.0	( 70.00 - 130.00 )
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.24	106.0	( 70.00 - 130.00 )
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.15	103.8	( 70.00 - 130.00 )
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	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  
#38292

Foster Wheeler Environmental, Inc  
(continued)

MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.26	106.5	( 70.00 - 130.00 )
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

**QC Batch #68704**

**Potassium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	21.4	107.0	( 80.00 - 120.00 )	
LCS2	Potassium, Flame AA	20	21.9	109.5	( 80.00 - 120.00 )	2.3
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	20.6	103.0	( 85.00 - 115.00 )	
MSD	Potassium, Flame AA	20	20.9	104.5	( 85.00 - 115.00 )	1.4

**QC Batch #68707**

**Sodium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	49.8	99.6	( 90.00 - 110.00 )	
LCS2	Sodium, Flame AA	50	48.3	96.6	( 90.00 - 110.00 )	3.1
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	46.7	93.4	( 85.00 - 115.00 )	
MSD	Sodium, Flame AA	50	47.1	94.2	( 85.00 - 115.00 )	0.85

**QC Batch #68710**

**Magnesium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	20.2	101.0	( 90.00 - 110.00 )	
LCS2	Magnesium, Flame AA	20	18.8	94.0	( 90.00 - 110.00 )	7.2
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	18.8	94.0	( 85.00 - 115.00 )	
MSD	Magnesium, Flame AA	20	19.2	96.0	( 85.00 - 115.00 )	2.1

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.



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Laboratory  
QC Report  
#38292

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #68713**

**Calcium, Flame AA**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.4	102.8	( 90.00 - 110.00 )	
LCS2	Calcium, Flame AA	50	51.9	103.8	( 90.00 - 110.00 )	0.97
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.3	94.6	( 85.00 - 115.00 )	
MSD	Calcium, Flame AA	50	47.6	95.2	( 85.00 - 115.00 )	0.63

**QC Batch #69222**

**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0210	105.0	( 85.00 - 115.00 )	
LCS2	Arsenic, Total, GF	0.020	0.0196	98.0	( 85.00 - 115.00 )	6.9
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0202	101.0	( 85.00 - 115.00 )	
MSD	Arsenic, Total, GF	0.020	0.0199	99.5	( 85.00 - 115.00 )	1.5

**QC Batch #69247**

**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	20.9	104.5	( 90.00 - 110.00 )	
LCS2	Perchlorate	20.0	19.4	97.0	( 90.00 - 110.00 )	7.4
MBLK	Perchlorate	ND				
MS	Perchlorate	25.0	26.6	106.4	( 75.00 - 125.00 )	
MSD	Perchlorate	25.0	25.7	102.8	( 75.00 - 125.00 )	3.4

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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Laboratory  
QC Report  
#38292

Foster Wheeler Environmental, Inc  
(continued)

**QC Batch #69295**

**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	( 85.00 - 115.00 )	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	100	100.0	( 70.00 - 130.00 )	
MSD	Chromium, Total, ICAP/MS	100	98.1	98.1	( 70.00 - 130.00 )	1.9

**QC Batch #69296**

**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	478	95.6	( 85.00 - 115.00 )	
LCS2	Iron, Total, ICAP/MS	500	489	97.8	( 85.00 - 115.00 )	2.3
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	515	103.0	( 70.00 - 130.00 )	
MSD	Iron, Total, ICAP/MS	500	521	104.2	( 70.00 - 130.00 )	1.2

**QC Batch #69297**

**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	18.9	94.5	( 85.00 - 115.00 )	
LCS2	Lead, Total, ICAP/MS	20	19.8	99.0	( 85.00 - 115.00 )	4.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20	19.4	97.0	( 70.00 - 130.00 )	
MSD	Lead, Total, ICAP/MS	20	19	95.0	( 70.00 - 130.00 )	2.1

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.



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0942

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page \_\_\_ of \_\_\_

Project: <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <b>4800 OAK GROVE DR. PASADENA, CA</b>		Sampler (Name): <b>M. LOSI</b>		Nonhazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		Reactive <input type="checkbox"/> Toxic <input type="checkbox"/> Infectious <input type="checkbox"/>					NORMAL <input checked="" type="checkbox"/> _____ DAYS		RUSH <input type="checkbox"/> _____ DAYS		
Laboratory: <b>MONTGOMERY WATSON LABORATORY</b>		Sampler: (Signature):		ANALYSES REQUIRED											
Reports to Be Sent to: <b>MARK CUTLER</b>															
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOLs	Total Cr, As, Pb	ANIONS	Cr(VI)	C104	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-80	0920	9/12/97	2	2x40ml	-			X					TRIP BLANK (9/12/97)		
MW-973-81	0920	9/12/97	5	2x40ml 1x250ml 2x125ml	-			X	X		X	X	EQUIP BLANK (9/12/97)		
MW-973-6	1055	9/12/97	6	2x40ml 2x125ml 1x250ml 1x500ml	-			X	X	X	X	X	MW-3, SCL5		
MW-973-5	1225	9/12/97	6	2x40ml 2x125ml 1x250ml	-			X	X	X	X	X	MW3, SCL4		
MW-973-4	1335	9/12/97	6	2x40ml 2x125ml 1x250ml 1x500ml	-			X	X	X	X	X	MW3, SCL3		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
LEVEL IV QA/ac												All samples delivered @ 30c			
Relinquished by: (Signature)		Date:	Received by: (Signature)		Relinquished by: (Signature)		Date:	Received by: (Signature)							
Company: <b>FWEN C</b>		Time: <b>1451</b>	Company: <b>Montgomery Watson Lab.</b>		Company:		Time:	Company:							



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0298

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page \_\_\_ of \_\_\_

Project: <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <b>4800 OAK GROVE DR PASADENA, CA</b>				Nonhazard <input type="checkbox"/> Reactive <input type="checkbox"/>		NORMAL <input type="checkbox"/> _____ DAYS									
Sampler (Name): <b>MLOSI/TCHOI</b>		Sampler (Signature):		Flammable <input type="checkbox"/> Toxic <input type="checkbox"/>		RUSH <input type="checkbox"/> _____ DAYS									
Laboratory: <b>MONTGOMERY WATSON LABORATORY</b>				Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>											
Reports to Be Sent to: <b>MARK CUTLER</b>				ANALYSES REQUIRED											
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs	TOTAL C, AS, Ph	ANIONS	Cr(VI)	ClO4	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-82	0830	9/15/97	2	2x40ml	✓			X					TRIP BLANK (9/15/97)		
MW-973-83	0925	9/15/97	5	2x40ml, 2x125ml, 1x250ml, 1x500ml				X	X	X	X		EQUIP BLANK (9/15/97)		
MW-973-03	0904	9/15/97	6	2x40ml, 2x125ml, 1x250ml, 1x500ml				X	X	X	X		MW-3 SCREEN 2		
MW-973-02	1000	9/15/97	6	2x40ml, 2x125ml, 1x250ml, 1x500ml				X	X	X	X		MW-3 SCREEN 1		
MW-973-43	1330	9/15/97	6	2x40ml, 2x125ml, 1x250ml, 1x500ml				X	X	X	X		MW-17 SCREEN 43		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
<b>LEVEL IV QA/QC</b>												<b>ALL SAMPLES DELIVERED @ 3°C</b>			
Relinquished by: (Signature)		Date: <b>9/16/97</b>		Received by: (Signature)		Date:		Received by: (Signature)							
<b>[Signature]</b>				<b>Joe Shaffer</b>											
Company: <b>FWENC</b>		Time: <b>0715</b>		Company: <b>MONTGOMERY WATSON LABS</b>		Company:		Company:							



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0900

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page \_\_\_ of \_\_\_

Project: <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <b>4800 OAK GROVE DR, PASADENA, CA</b>		Sampler (Name): <b>MLOS/TCTOI</b>		Nonhazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		Reactive <input type="checkbox"/> Toxic <input type="checkbox"/> Infectious <input type="checkbox"/>					NORMAL <input checked="" type="checkbox"/> _____ DAYS		RUSH <input type="checkbox"/> _____ DAYS		
Laboratory: <b>MONTGOMERY WATSON LABS</b>		Sampler: (Signature) <i>[Signature]</i>		ANALYSES REQUIRED											
Reports to Be Sent to: <b>MARK CUTLER</b>															
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VDIAR	Total Cr, As, Pb	ANIONS	Cr(VI)	ClO4	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-84	0845	9/16/97	2	2x40ml	✓			X					TRIP BLANK	9/16/97	
MW-973-85	0910	9/16/97	5	2x40ml, 1x250ml, 2x125ml	✓			X	X	Y	X		EQUIP. BLANK	9/16/97	
MW-973-41	0940	9/16/97	7	2x40ml, 3x500ml, 2x125ml	✓			X	X	X	X		MW-17 SCREEN 2		
MW-973-41MS	0940	9/16/97	2	2x40ml	✓			X					MW-17 SCREEN 2 (MS)		
MW-973-41MSD	0940	9/16/97	2	2x40ml	✓			X					MW-17 SCREEN 2 (MSD)		
MW-973-40	1120	9/16/97	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	✓			X	X	X	X		MW-17 SCREEN 1		
MW-973-42	1350	9/16/97	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	✓			X	X	X	X		MW-17 SCREEN 3		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
<b>LEVEL IV QA/QC</b>												<b>ALL SAMPLES DELIVERED @ 30C</b>			
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>9/16/97</b>		Received by: (Signature) <i>[Signature]</i>		Date:		Relinquished by: (Signature)		Date:		Received by: (Signature)			
Company: <b>FWENC</b>		Time: <b>1509</b>		Company: <b>Montgomery Watson Labs</b>		Time:		Company:		Time:		Company:			





FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0953

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page \_\_\_ of \_\_\_

Project : <u>JPL</u>		OFS No. <u>1572</u>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <u>4800 OAK GROVE DR, PASADENA, CA</u>				Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/>		NORMAL <input checked="" type="checkbox"/> _____ DAYS									
Sampler (Name): <u>MLOSI/TCHO/GSHAW</u>				Flammable <input type="checkbox"/> Toxic <input type="checkbox"/>		RUSH <input type="checkbox"/> _____ DAYS									
Sampler (Signature): <u>[Signature]</u>				Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>											
Laboratory: <u>MONTGOMERY WATSON LABORATORIES</u>				ANALYSES REQUIRED											
Reports to Be Sent to: <u>Mark Cutler</u>															
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOAS	METALS Pb	ANIONS	Cr(VI)	C/D <sub>4</sub>	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-86	0815	9/18/97	2	2x40ml	✓			X					TRIP BLANK	9/18/97	
MW-973-87	0818	9/18/97	5	2x40ml, 1x250ml 2x125ml	✓			X	X		X	X	EQUIP. BLANK	9/18/97	
MW-973-44	0930	9/19/97	6	2x40ml, 1x250ml 1x500ml, 2x125ml	✓			X	X	X	X	X	MW-17 SCREEN 5		
MW-973-54	1110	9/18/97	6	2x40ml, 1x250ml 1x500ml, 2x125ml	✓			X	X	X	X	X	MW-19 SCREEN 5		
MW-973-53	1250	9/18/97	6	2x40ml, 1x250ml 1x500ml, 2x125ml	✓			X	X	X	X	X	MW-19 SCREEN 4		
LABORATORY INSTRUCTIONS/COMMENTS:													SAMPLING COMMENTS:		
LEVEL IV QA/QC													ALL SAMPLES DELIVERED AT  30C		
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>9/18/97</u>		Received by: (Signature) <u>[Signature]</u>		Date:		Received by: (Signature)							
Company: <u>ENC</u>		Time: <u>1530</u>		Company: <u>MONTGOMERY WATSON LABS</u>		Company:		Company:							



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0943

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

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Project : JPL		OFS No. 1572		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: 4800 OAK GROVE DR, PASADENA, CA		Sampler (Name): MLOSI/TC101		Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/>		NORMAL <input checked="" type="checkbox"/> _____ DAYS									
Laboratory: MONTGOMERY WATSON		Sampler (Signature): <i>[Signature]</i>		Flammable <input type="checkbox"/> Toxic <input type="checkbox"/>		RUSH <input type="checkbox"/> _____ DAYS									
Reports to Be Sent to: MARK CUTLER				Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>											
								ANALYSES REQUIRED							
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOAS	METALS	ANIONS	Cr(VI)	ClO <sub>4</sub>	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-88	1000	9/19/97	2	2x40ml	✓			X					TRIP BLANK		
MW-973-89	1130	9/19/97	5	2x40ml, 1x250ml, 2x125ml	✓			X	X		X	X	EQUIP BLANK		
MW-973-50	0915	9/19/97	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	✓			X	X	X	X	X	MW-19 SCREEN 1		
MW-973-50	1450	9/19/97	6	2x40ml, 1x250ml, 1x500ml, 2x125ml	✓			X	X	X	X	X	MW-19 SCREEN 3		
MW-973-52ms	1450	9/19/97	2	2x40ml	✓			X					MW-19 SCREENS MS		
MW-973-52MSD	1450	9/19/97	2	2x40ml	✓			X					MW-19 SCREENS MSD		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
LEVEL IV QA/QC <i>[Signature]</i>												ALL SAMPLES DELIVERED AT 3°C			
Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:	Received by: (Signature)	Date:	Received by: (Signature)	Date:	Received by: (Signature)			
Company: FWONC	Time:	Company: MONTGOMERY WATSON	Time:	Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:	Company:			



**FOSTER WHEELER ENVIRONMENTAL CORPORATION**

**CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS**

PROJECT <b>PL</b>	OFS NO. <b>1572.0227</b>	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS
PROJECT ADDRESS <b>4800 OAK GROVE DR, PASADENA, CA</b>			

SAMPLER (Name) <b>J. Brenner</b>	SAMPLER (Signature) <i>J. Brenner</i>	ANALYSES REQUIRED	
LABORATORY <b>MONTGOMERY WATSON LABS</b>		<b>NOCs 524.2</b>	<b>TOTAL AS, C, Pb</b>
REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>		<b>ANIONS</b>	<b>Cl<sup>-</sup> (YI)</b>
		<b>ClO4</b>	

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			NOCs 524.2	TOTAL AS, C, Pb	ANIONS	Cl <sup>-</sup> (YI)	ClO4
					WATER	SOIL	OTHER (Describe)					
MW-973-90	0845	9/22/97	2	2x40ml	X			X				
MW-973-91	1000	↓	5	2x40ml 1x250ml 2x125ml	X			X	X	X	X	
MW-973-51	0900		7	2x40ml 3x500ml 2x125ml	X			X	X	X	X	
MW-973-59	1110		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	
MW-973-50	1245		6	↓	X			X	X	X	X	
MW-973-57	1430		6	↓	X			X	X	X	X	
MW-973-56	1540		6	↓	X			X	X	X	X	

LOCATION	DEPTH	QC CODE
TRIP BLANK	9/22/97	
EDUP. BLANK	9/22/97	
MW-19, SCREEN #2		*QC
MW-20, SCREEN #5		
MW-20, SCREEN #4		
MW-20, SCREEN #3		
MW-20, SCREEN #2		

LABORATORY INSTRUCTIONS/COMMENTS  
**Level IV QA/QC**

SAMPLING COMMENTS  
**ALL SAMPLES DELIVERED TO LABS AT 30°C**

RELINQUISHED BY (Signature) <i>J. Brenner</i>	DATE <b>9/22/97</b>	RECEIVED BY (Signature) <i>W. ...</i>	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY <b>FWI</b>	TIME <b>1620</b>	COMPANY <b>MW LABS</b>	COMPANY	TIME	COMPANY

# FOSTER WHEELER ENVIRONMENTAL CORPORATION

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT <b>JPL</b>		OFS NO. <b>1572.0227</b>		HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS									
PROJECT ADDRESS <b>4800 OAK GROVE DR. PASADENA CA</b>				SAMPLER (Name) <b>J. BRENNER</b>				SAMPLER (Signature) <i>J. Brenner</i>							
LABORATORY <b>MONTGOMERY LABS</b>				ANALYSES REQUIRED											
REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>				VOCs	524.2	TOTAL AS, Cr, Pb	ANIONS	Cr (VI)	ClO4						
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs	TOTAL AS, Cr, Pb	ANIONS	Cr (VI)	ClO4	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-92	0745	9/23/97	2	2x40ml	X			X					TRIP BLANK	9/23/97	
MW-973-93	0800	↓	5	2x40ml 1x250ml 2x125ml	X			X	X	X	X		EQUIP. BLANK	9/23/97	
MW-973-00	0850		1	1x125ml	X			X	X	X	X		MW-17	SCREEN # 3	
MW-973-49	1000		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X		MW-18	SCREEN # 5 (QC)	
MW-973-49MS	1005		2	2x40ml	X			X	X	X	X		MW-18-S	MATRIX SPIKE	
MW-973-49MSD	1010		2	2x40ml	X			X	X	X	X		MW-18-S	MATRIX SPIKE DUP.	
MW-973-48	1145		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X		MW-18	SCREEN # 4	
MW-973-47	1255		6	↓	X			X	X	X	X		MW-18	SCREEN # 3	
MW-973-46	1400		6	↓	X			X	X	X	X		MW-18	SCREEN # 2	
LABORATORY INSTRUCTIONS/COMMENTS  <b>LEVEL IV QA/QC</b>												SAMPLING COMMENTS  <b>ALL SAMPLES DELIVERED AT 3°C</b>			
RELINQUISHED BY (Signature) <i>Mark for</i>		DATE 9/23/97	RECEIVED BY (Signature) <i>W. Wilson</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)							
COMPANY <b>FWENC</b>		TIME	COMPANY <b>Montgomery Watson Labs</b>		COMPANY		TIME	COMPANY							



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT <b>JPL</b>	OFS NO. <b>1572.0227</b>	HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS
PROJECT ADDRESS <b>4800 OAK GROVE DR PASADENA, CA</b>			
SAMPLER (Name) <b>J. BRENNER</b>	SAMPLER (Signature) <i>J. Brenner</i>	ANALYSES REQUIRED	
LABORATORY <b>MONTGOMERY WATSON LABS</b>		<b>VOCs 5242</b> <b>TOTAL D.C. Pb</b> <b>MAJOR ANIONS</b> <b>Cr (VI)</b> <b>ClO4</b>	
REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>			

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			VOCs	TOTAL D.C. Pb	MAJOR ANIONS	Cr (VI)	ClO4								
					WATER	SOIL	OTHER (Describe)													
MW-973-94	0750	9/24/97	2	2x40ml	X			X												
MW-973-95	0810	↓	5	2x40ml 1x250ml 2x125ml	X			X	X											
MW-973-07	0935		7	2x40ml 1x125ml 3x50ml	X			X	X	X	X*									*QC
MW-973-08	1035		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X									
MW-973-09	1045		5	2x40ml 1x250ml 2x125ml	X			X	X	X	X									
MW-973-10	1200		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X									
MW-973-11	1310		6	↓	X			X	X	X	X									
MW-973-12	1405		6	↓	X			X	X	X	X									
MW-973-12A	1405		2	2x40ml	X			X												MW-4-5 (NOCS MATRIX SPK)
MW-973-12MSD	1405		2	2x40ml	X			X												MW-4-5 (VOCs MSD)
				47																

LOCATION	DEPTH	QC CODE
TRIP BLANK	9/24/97	
EDUP. BLANK	9/24/97	
MW-4 SCREEN #1 (METALS)		
MW-4 SCREEN #2		
MW-4-2 (DUPLICATE)		
MW-4 SCREEN #3		
MW-4 SCREEN #4		
MW-4 SCREEN #5		
MW-4-5 (NOCS MATRIX SPK)		
MW-4-5 (VOCs MSD)		

LABORATORY INSTRUCTIONS/COMMENTS  
**LEVEL IV QA/QC**

SAMPLING COMMENTS  
**ALL SAMPLES DELIVERED TO LABS AT 3°C**

RELINQUISHED BY (Signature) <i>Mark Cutler</i>	DATE/TIME 9/24/97 14:00	RECEIVED BY (Signature) <i>Wattson</i>	COMPANY FWEN	RECEIVED BY (Signature)	DATE/TIME	COMPANY
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**FOSTER WHEELER ENVIRONMENTAL CORPORATION**

**CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS**

PROJECT <b>JPL</b>		OFS NO. <b>1572</b>		HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>				TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS								
PROJECT ADDRESS <b>4800 OAK GROVE DR. PASADENA, CA</b>				SAMPLER (Name) <b>J. BRENNER</b>				SAMPLER (Signature) <i>J.B.</i>								
LABORATORY <b>MONTGOMERY LABS</b>				ANALYSES REQUIRED												
REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>				<b>VOCs 524.2</b> <b>TRIAL AS Cr, Pb</b> <b>MAJOR ANIONS</b> <b>Cr (VI)</b> <b>ClO4</b>												
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs	TRIAL AS Cr, Pb	MAJOR ANIONS	Cr (VI)	ClO4	LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)									
MW-973-96	0920	9/25/97	2	2x40ml	X			X					TRIP BLANK	9/25/97		
MW-973-97	1030	↓	5	2x40ml 1x25ml 2x125ml	X			X	X				EDJIP. BLANK	9/25/97		
MW-973-31	0900		6	2x40ml 1x25ml 2x125ml 1x50ml	X			X	X	X				MW-13		
MW-973-32	0910		5	2x40ml 1x25ml 2x125ml	X			X	X	X				MW-13 (DUP.)		
MW-973-37	1130		6	2x40ml 1x25ml 2x125ml 1x50ml	X			X	X	X				MW-14, SCREEN #5		
MW-973-33	1235		6	↓	X			X	X	X				MW-14, SCREEN #1		
MW-973-34	1510		6		X			X	X	X	X			MW-14, SCREEN #2	QC	
MW-973-35	1655		6		X			X	X	X	X			MW-14, SCREEN #3		
									X	X	X					
LABORATORY INSTRUCTIONS/COMMENTS <b>LEVEL III QA/QC</b>												SAMPLING COMMENTS <b>ALL SAMPLES DELIVERED TO LABS AT 3°C</b>				
RELINQUISHED BY (Signature) <i>J.B.</i>		DATE 9/25/97		RECEIVED BY (Signature) <i>Warren PL</i>		DATE		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		
COMPANY FWENC		TIME 1700		COMPANY MW LABS		COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT <b>JPL</b>		OFS NO. <b>1572</b>		HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS		<p><b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b></p>								
PROJECT ADDRESS <b>4800 OAK GROVE DR. PASADENA, CA</b>				SAMPLER (Name) <b>J. BRENNER</b>		SAMPLER (Signature) <i>J. Brenner</i>					ANALYSES REQUIRED					
LABORATORY <b>MONTGOMERY WATSON LABS</b>				REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>		VOCs (624.2)					TOTAL AS, Cr, Pb					
						ANIONS					Cr(VI)					
						ClO4										
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (624.2)	TOTAL AS, Cr, Pb	ANIONS	Cr(VI)	ClO4	LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)									
MW-973-98	0750	9/29/97	2	2x40ml	X			X					TRIP BLANK	9/29/97		
MW-973-97	0800	↓	5	2x40ml 1x250ml 2x125ml	X			X	X		X	X	TRIP BLANK	9/29/97		
MW-973-36	0830		6	2x40ml 2x125ml 3x500ml	X			X	X	X	X	X	(MS/MSD METALS)	MW-14, SCREEN #4		
MW-973-63	1215		6	↓	X			X	X	X	X	X		MW-21, SCREEN #4		
MW-973-61	1445		6	↓	X			X	X	X	X	X		MW-21, SCREEN #2		
MW-973-61MS	1450		2	2x40ml	X			X	X					MW-21-2 MS		
MW-973-61MSD	1455		2	2x40ml	X			X	X					MW-21-2 MSD		
LABORATORY INSTRUCTIONS/COMMENTS <b>LEVEL III QA/QC</b>													SAMPLING COMMENTS <b>ALL SAMPLES DELIVERED TO LAB AT 30</b>			
RELINQUISHED BY (Signature) <i>J. Brenner</i>		DATE 9/4/97	RECEIVED BY (Signature) <i>Warren</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)								
COMPANY FW		TIME 15:58	COMPANY M W LABS		COMPANY		TIME	COMPANY								



FOSTER WHEELER ENVIRONMENTAL CORPORATION

№ 0944

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page \_\_\_ of \_\_\_

Project : <u>JPL</u>		OFS No.		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>													
Project Address: <u>4800 OAK GROVE DR PASADENA, CA</u>				Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/>		NORMAL <input checked="" type="checkbox"/> _____ DAYS															
Sampler (Name): <u>MLOSI / T.C.H.</u>		Sampler (Signature): <u>[Signature]</u>		Flammable <input type="checkbox"/> Toxic <input type="checkbox"/>		RUSH <input type="checkbox"/> _____ DAYS															
Laboratory: <u>MONTGOMERY WATSON LABS</u>				Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>									<b>ANALYSES REQUIRED</b>								
Reports to Be Sent to: <u>MARK CUTLER</u>													<u>VOCs</u> <u>METALS</u> <u>ANIONS</u> <u>Cr (VI)</u> <u>ClOy</u>								
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs	METALS	ANIONS	Cr (VI)	ClOy						LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)														
MW-973-100	1250	9/30/97	2	2x40ml				X													TRIP BLANK 9/30/97
MW-973-101	1300	9/30/97	5	2x40ml, 1x250ml, 2x125ml				X	X		X	X									EQUIP BLANK 9/30/97
MW-973-64	1400	9/30/97	6	2x200ml, 1x250ml, 1x500ml, 2x125ml				X	X	X	X	X									MW-21 SCREEN 5
LABORATORY INSTRUCTIONS/COMMENTS:																	SAMPLING COMMENTS:				
LEVEL IV QA/QC																	ALL SAMPLES DELIVERED @ 3°C				
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>9/30/97</u>		Received by: (Signature) <u>[Signature]</u>		Relinquished by: (Signature)		Date:		Received by: (Signature)											
Company: <u>FWENC</u>		Time: <u>15:41</u>		Company: <u>MONTGOMERY WATSON LABS</u>		Company:		Time:		Company:											





FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0945

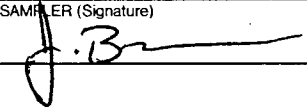
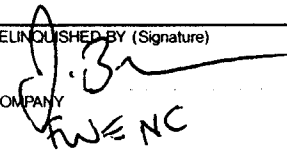
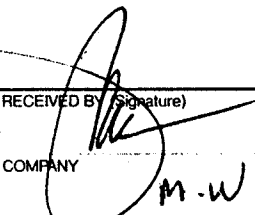
CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project: <u>JPL</u>		OFS No. <u>1572.0227</u>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>													
Project Address: <u>4800 OAK GROVE DR. PASADENA, CA</u>		Sampler (Name): <u>J. BRENNER</u>		Nonhazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		Reactive <input type="checkbox"/> Toxic <input type="checkbox"/> Infectious <input type="checkbox"/>					NORMAL <input checked="" type="checkbox"/> DAYS										
Laboratory: <u>MONTGOMERY LABS</u>		Sampler (Signature): <u>[Signature]</u>		Flammable <input type="checkbox"/>		Toxic <input type="checkbox"/>					RUSH <input type="checkbox"/> DAYS										
Reports to Be Sent to: <u>MR. MARK CUTLER</u>				RUSH <input type="checkbox"/>																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			ANALYSES REQUIRED										LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)	VOCs (S2A.2)	TOTRAs, Cr, Pb	MAJOR ANIONS	Cl(VI)	ClO4									
MW-973-102	0830	10/1/97	2	2x40ml	X			X											TRIP BLANK	10/1/97	
MW-973-103	1045		5	2x40ml 1x25ml 2x125ml	X			X	X			X	X						EQUIP. BLANK	10/1/97	
MW-973-62	<del>1000</del>		6	2x40ml 1x25ml 2x125ml 1x500ml	X			X	X	X	X	X	X						MW-21, SCREEN #3	QC	
MW-973-24	1145		6		X			X	X	X	X	X	X						MW-11, SCREEN #5		
MW-973-23	1315		6		X			X	X	X	X	X	X						MW-11, SCREEN #4		
MW-973-22	1420		6		X			X	X	X	X	X	X						MW-11, SCREEN #3		
MW-973-21	1520		6		X			X	X	X	X	X	X						MW-11, SCREEN #2		
MW-973-21MS	1520		2	2x40ml	X			X											MW-11-2 MATRIX SPIKE		
MW-973-21MSD	1520		2	2x40ml	X			X											MW-11-2 MAT. SPIKE DUP.		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:									
LEVEL IV QA/QC												ALL SAMPLES DELIVERED TO LAB AT 3°C									
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>10-1-97</u>		Received by: (Signature) <u>[Signature]</u>		Relinquished by: (Signature)		Date:		Received by: (Signature)											
Company: <u>FW NC</u>		Time: <u>16:31</u>		Company:		Company:		Time:		Company:											

# FOSTER WHEELER ENVIRONMENTAL CORPORATION

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT <b>JPL</b>		OFS NO. <b>1572</b>		HAZARD IDENTIFICATION Non Hazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		TIME REQUIRED NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS																																																																																																											
PROJECT ADDRESS <b>4800 OAK GROVE DR,</b>				SAMPLER (Name) <b>J. BRENNER</b>				SAMPLER (Signature) 																																																																																																									
LABORATORY <b>MONTGOMERY LABS</b>				ANALYSES REQUIRED																																																																																																													
REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">SAMPLE NUMBER</th> <th rowspan="2">TIME COLLECTED</th> <th rowspan="2">DATE COLLECTED</th> <th rowspan="2">NUMBER OF CONTAINERS</th> <th rowspan="2">CONTAINER SIZE(S)</th> <th colspan="3">SAMPLE MATERIAL</th> <th rowspan="2">VOCs (Szcz.2)</th> <th rowspan="2">TOTAL ALC. Pb</th> <th rowspan="2">MAJOR ANIONS</th> <th rowspan="2">Cl<sup>-</sup>(V<sub>i</sub>)</th> <th rowspan="2">ClO<sub>4</sub></th> </tr> <tr> <th>WATER</th> <th>SOIL</th> <th>OTHER (Describe)</th> </tr> </thead> <tbody> <tr> <td>MW-973-104</td> <td>0800</td> <td>10/2/97</td> <td>2</td> <td>2x40ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-973-105</td> <td>0815</td> <td rowspan="7" style="text-align: center;">↓</td> <td>5</td> <td>2x40ml 1x250ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-973-20</td> <td>0850</td> <td>6</td> <td>2x40ml 1x250ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>QC SAMPLE</td> </tr> <tr> <td>MW-973-30</td> <td>1020</td> <td><del>6</del> 7</td> <td>2x40ml 1x500ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>MS/MSD METALS</td> </tr> <tr> <td>MW-973-29</td> <td>1200</td> <td>6</td> <td>2x40ml 3x500ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>MW-973-28</td> <td>1325</td> <td>6</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>MW-973-27</td> <td>1430</td> <td>6</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>				SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (Szcz.2)	TOTAL ALC. Pb	MAJOR ANIONS	Cl <sup>-</sup> (V <sub>i</sub> )	ClO <sub>4</sub>	WATER	SOIL	OTHER (Describe)	MW-973-104	0800	10/2/97	2	2x40ml	X			X					MW-973-105	0815	↓	5	2x40ml 1x250ml	X			X	X				MW-973-20	0850	6	2x40ml 1x250ml	X			X	X	X	X	QC SAMPLE	MW-973-30	1020	<del>6</del> 7	2x40ml 1x500ml	X			X	X	X	X	MS/MSD METALS	MW-973-29	1200	6	2x40ml 3x500ml	X			X	X	X	X		MW-973-28	1325	6		X			X	X	X	X		MW-973-27	1430	6		X			X	X	X	X		<p><b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b></p>			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS										CONTAINER SIZE(S)	SAMPLE MATERIAL							VOCs (Szcz.2)	TOTAL ALC. Pb	MAJOR ANIONS	Cl <sup>-</sup> (V <sub>i</sub> )	ClO <sub>4</sub>																																																																																								
				WATER	SOIL	OTHER (Describe)																																																																																																											
MW-973-104	0800	10/2/97	2	2x40ml	X			X																																																																																																									
MW-973-105	0815	↓	5	2x40ml 1x250ml	X			X	X																																																																																																								
MW-973-20	0850		6	2x40ml 1x250ml	X			X	X	X	X	QC SAMPLE																																																																																																					
MW-973-30	1020		<del>6</del> 7	2x40ml 1x500ml	X			X	X	X	X	MS/MSD METALS																																																																																																					
MW-973-29	1200		6	2x40ml 3x500ml	X			X	X	X	X																																																																																																						
MW-973-28	1325		6		X			X	X	X	X																																																																																																						
MW-973-27	1430		6		X			X	X	X	X																																																																																																						
LOCATION			DEPTH		QC CODE																																																																																																												
LABORATORY INSTRUCTIONS/COMMENTS  <b>LEVEL IV QA/QC</b>								SAMPLING COMMENTS  <b>ALL SAMPLES DELIVERED TO LAB AT 3°C</b>																																																																																																									
RELINQUISHED BY (Signature) 		DATE <b>10-2-97</b>		RECEIVED BY (Signature) 		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)																																																																																																							
COMPANY <b>FWENC</b>		TIME <b>16:30</b>		COMPANY <b>M.W.</b>		COMPANY		TIME		COMPANY																																																																																																							



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

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

SAMPLER (Name) <b>J. BRENNER</b>	SAMPLER (Signature) 	ANALYSES REQUIRED	
LABORATORY <b>MONTGOMERY LABS</b>		<b>VOCs (52+2)</b>	<b>Total As Cr Pb</b>
REPORTS TO BE SENT TO <b>MR. MARK CUTLER</b>		<b>MASSIC ANIONS</b>	<b>Cr (vi)</b>
			<b>ClO4</b>

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			VOCs (52+2)	Total As Cr Pb	MASSIC ANIONS	Cr (vi)	ClO4							
					WATER	SOIL	OTHER (Describe)												
MW-973-106	1045	10/6/97	2	2x40ml	X			X											
MW-973-107	1100	10/6/97	5	2x40ml (x250ml) 2x125ml	X			X	X		X	X							
MW-973-79	1320	10/6/97	6	2x40ml (x250ml) 2x125ml (x50ml)	X			X	X	X	X	X							QC SAMPLE
MW-973-78	1535	10/6/97	6	6	X			X	X	X	X	X							

LOCATION	DEPTH	QC CODE
TRIP BLANK	10/6/97	
EQUIP. BLANK	10/6/97	
MW-24, SCREEN # 5 (QC)		
MW-24, SCREEN # 4		

LABORATORY INSTRUCTIONS/COMMENTS  
**LEVEL III QA/QC**

SAMPLING COMMENTS  
**ALL SAMPLES DELIVERED TO LAB @ 3°C**

RELINQUISHED BY (Signature) 	DATE <b>10-6-97</b>	RECEIVED BY (Signature) 	DATE	RECEIVED BY (Signature)
COMPANY <b>FWS</b>	TIME <b>1616</b>	COMPANY <b>M.W.</b>	TIME	COMPANY



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0946

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION: Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		Time Required NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>																												
Project Address: <b>4800 OAK GROVE, PASADENA, CA</b>				Sampler (Name): <b>J. BRENNER</b>							Sampler (Signature): <i>[Signature]</i>																									
Laboratory: <b>MONTGOMERY LABS</b>				ANALYSES REQUIRED																																
Reports to Be Sent to: <b>MR. MARK CUTLER</b>				<table border="1"> <tr> <td>VOCs (SL42)</td> <td>TOTAL AS, G, Pb</td> <td>MARIC ANIONS</td> <td>Cr (VI)</td> <td>ClO4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							VOCs (SL42)	TOTAL AS, G, Pb	MARIC ANIONS	Cr (VI)	ClO4							X	X	X	X	X										
VOCs (SL42)	TOTAL AS, G, Pb	MARIC ANIONS	Cr (VI)								ClO4																									
X	X	X	X	X																																
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (SL42)	TOTAL AS, G, Pb	MARIC ANIONS	Cr (VI)	ClO4	QC	LOCATION	DEPTH	QC CODE																				
					WATER	SOIL	OTHER (Describe)																													
MW-973-108	0815	10/7/97	2	2x40ml	X			X						TRIP BLANK	10/7/97																					
MW-973-109	0830		5	2x40ml 1x250ml 2x125ml	X			X	X	X	X			TRIP BLANK	10/7/97																					
MW-973-75	1420		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	QC		MW-24 SCREEN #1																						
MW-973-75ms	1420		2	2x40ml	X			X						MW-24-1 MS (VOCs)																						
MW-973-75ms2	1420		2	2x40ml	X			X						MW-24-1 MSD (VOCs)																						
LABORATORY INSTRUCTIONS/COMMENTS: <b>LEVEL IV QA/QC</b>													SAMPLING COMMENTS: <b>ALL SAMPLES DELIVERED TO LAB AT 3°C</b>																							
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10.7.97		Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Date:		Received by: (Signature)																										
Company: <b>FWENC</b>		Time: 16:30		Company: <b>MW LAB</b>		Company:		Time:		Company:																										



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0963

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project: <u>JPL</u>		OFS No. <u>1572</u>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>				
Project Address: <u>4800 OAK GROVE DR PASADENA, CA</u>		Sampler (Name): <u>J. BRENNER</u>		Nonhazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		Reactive <input type="checkbox"/> Toxic <input type="checkbox"/> Infectious <input type="checkbox"/>					NORMAL <input checked="" type="checkbox"/> DAYS	
Sampler (Signature): <u>[Signature]</u>		Laboratory: <u>MONTGOMERY LABS</u>		Flammable <input type="checkbox"/>		RUSH <input type="checkbox"/> DAYS					ANALYSES REQUIRED	
Reports to Be Sent to: <u>MR. MARK CUTLER</u>		VOCs (524.2)		Total As Cr Pb		MASS 2 ANION 3					CF (VI)	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			LOCATION	DEPTH	QC CODE		
					WATER	SOIL	OTHER (Describe)					
MW-973-110	0830	10/8/97	2	2x40ml	X			X		TRIP BLANK 10/8/97		
MW-973-111	0945	10/8/97	5	2x40ml 1x250ml 2x125ml	X			X	X	EQUIP. BLANK 10/8/97		
MW-973-76	1050	↓	6	2x40ml 1x50ml 2x125ml 1x10L	X			X	X	*QC sample MW-24, SCREEN # 2 (fishes)		
MW-973-77	1245	↓	6	2x40ml 1x250ml 2x125ml 1x50ml	X			X	X	MW-24, SCREEN # 3 (metres)		
LABORATORY INSTRUCTIONS/COMMENTS:								SAMPLING COMMENTS:				
LEVEL <del>IV</del> QA/QC								ALL SAMPLES DELIVERED AT 3°C				
Relinquished By: (Signature) <u>[Signature]</u>		Date: <u>10-8-97</u>		Received by: (Signature) <u>[Signature]</u>		Date:		Received by: (Signature)				
Company: <u>FWR</u>		Time: <u>14:42</u>		Company: <u>MW LABS</u>		Time:		Company:				

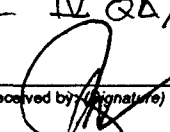
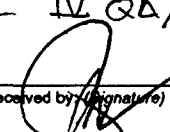


FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0947

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project: <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <b>4800 OAK GROVE DRIVE, PASADENA CA</b>				Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/>		NORMAL <input checked="" type="checkbox"/> _____ DAYS									
Sampler (Name): <b>T. CHOI</b>				Flammable <input type="checkbox"/> Toxic <input type="checkbox"/>		RUSH <input type="checkbox"/> _____ DAYS									
Sampler (Signature): <i>T. Choi</i>				Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>											
Laboratory: <b>MONTGOMERY WATSON</b>				ANALYSES REQUIRED											
Reports to Be Sent to: <b>MARK CUTLER</b>				VOCs (EPA 524.2) (EPA 501.0/1000) METALS, Ar, Pb, Cr MAJOR ANIONS Cr 6 PERCHLORATE											
SAMPLE NUMBER		TIME COLLECTED	DATE COLLECTED			NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL							
						WATER	SOIL	OTHER (Describe)			LOCATION	DEPTH	QC CODE		
MW-973-112		0935	10-9-97	2	2x40mL	X			X		TRIP BLANK	10-9-97			
MW-973-113		0930	10-9-97	5	2x40mL, 1x250mL 1x500mL, 1x125mL	X			X	X	EQUIP. BLANK	10-9-97			
MW-973-69		0945	10-9-97	6	2x40mL, 1x250mL 1x500mL, 2x125mL	X			X	X	MW-22, SCREEN 5				
MW-973-68		1055	10-9-97	6	2x40mL, 1x250mL 1x500mL, 2x125mL	X			X	X	MW-22, SCREEN 4				
LABORATORY INSTRUCTIONS/COMMENTS:				<b>LEVEL IV QA/QC</b> 				SAMPLING COMMENTS:				<b>ALL SAMPLES DELIVERED @ 3°C TO LAB</b> <b>CUSTODY SEALS PLACED ON COOLER</b>			
Relinquished by: (Signature) <i>T. Choi</i>		Date: <b>10-9-97</b>	Received by: (Signature) 		Relinquished by: (Signature)		Date:	Received by: (Signature)							
Company: <b>FOSTER WHEELER</b>		Time:	Company: <b>MONTGOMERY WATSON</b>		Company:		Time:	Company:							



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0964

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : <u>JPL</u>		OFS No. <u>1572</u>		HAZARD IDENTIFICATION: Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		Time Required NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS								
Project Address: <u>4800 OAKGROVE DR, FARMENA, CA</u>				Sampler (Name): <u>J. BIZENAL</u>				Sampler: (Signature):						
Laboratory: <u>MONTGOMERY LABS</u>				Reports to Be Sent to: <u>MR MARK CUTLER</u>				ANALYSES REQUIRED						
SAMPLE NUMBER		TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL WATER SOIL OTHER (Describe)		<u>VOCs (S24.2)</u> <u>TRIP AS C, PD</u> <u>MAJOR ANIONS</u> <u>Cr(VI)</u> <u>ClO4</u>						
<u>MW-973-114</u>		<u>0830</u>	<u>10/13/97</u>	<u>2</u>	<u>2x40ml</u>	<u>X</u>		<u>X</u>						
<u>MW-973-115</u>		<u>0845</u>	<u>10/13/97</u>	<u>5</u>	<u>2x40ml 1x250ml</u> <u>2x125ml</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>MW-973-67</u>		<u>0920</u>	<u>10/13/97</u>	<u>6</u>	<u>2x40ml 1x250ml</u> <u>2x125ml 1x500ml</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>QC</u>		
LABORATORY INSTRUCTIONS/COMMENTS:  <u>LEVEL III QA/QC</u>								SAMPLING COMMENTS:  <u>ALL SAMPLES DELIVERED TO LAB AT 3°C</u>						
Relinquished by: (Signature)		Date: <u>10-13-97</u>	Received by: (Signature)		Relinquished by: (Signature)		Date:	Received by: (Signature)						
Company: <u>FW</u>		Time: <u>16:53</u>	Company: <u>M.W.</u>		Company:		Time:	Company:						

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



FOSTER WHEELER ENVIRONMENTAL CORPORATION

№ 0948

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION: Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		Time Required NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>																																																																																																				
Project Address: <b>4800 OAK GROVE BLVD. PASADENA, CA.</b>				<b>ANALYSES REQUIRED</b> VOC's 524.2 Metals 6010/7000 (As, Pb, Cr) ANIONS CF TC ClO4																																																																																																								
Sampler (Name): <b>THOMAS BLANEY</b>		Sampler: (Signature): <i>[Signature]</i>																																																																																																										
Laboratory: <b>Montgomery LABS</b>				<table border="1"> <thead> <tr> <th rowspan="2">SAMPLE NUMBER</th> <th rowspan="2">TIME COLLECTED</th> <th rowspan="2">DATE COLLECTED</th> <th rowspan="2">NUMBER OF CONTAINERS</th> <th rowspan="2">CONTAINER SIZE(S)</th> <th colspan="3">SAMPLE MATERIAL</th> <th rowspan="2">VOC's</th> <th rowspan="2">Metals</th> <th rowspan="2">ANIONS</th> <th rowspan="2">CF TC</th> <th rowspan="2">ClO4</th> <th rowspan="2">LOCATION</th> <th rowspan="2">DEPTH</th> <th rowspan="2">QC CODE</th> </tr> <tr> <th>WATER</th> <th>SOIL</th> <th>OTHER (Describe)</th> </tr> </thead> <tbody> <tr> <td>MW-973-116</td> <td>1235</td> <td>10/14/97</td> <td>2</td> <td>40ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>TRIP BLANK</td> <td>10/14/97</td> <td></td> </tr> <tr> <td>MW-973-117</td> <td>1245</td> <td>↓</td> <td>5</td> <td>2x40, 1x250 2x125</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td>X</td> <td>EQ. BLANK</td> <td>10/14/97</td> <td></td> </tr> <tr> <td>MW-973-66</td> <td>1215</td> <td>↓</td> <td>6</td> <td>2x40, 1x250 1x500, 2x125</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>MW-22</td> <td>Screen #2</td> <td></td> </tr> <tr> <td>MW-973-66 MS</td> <td>1215</td> <td>↓</td> <td>2</td> <td>40ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Matrix Spike @ MW-22-2</td> <td></td> <td></td> </tr> <tr> <td>MW-973-66 MSD</td> <td>1215</td> <td>↓</td> <td>2</td> <td>40ml</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Matrix Spike Dup @ MW-22-2</td> <td></td> <td></td> </tr> </tbody> </table>							SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOC's	Metals	ANIONS	CF TC	ClO4	LOCATION	DEPTH	QC CODE	WATER	SOIL	OTHER (Describe)	MW-973-116	1235	10/14/97	2	40ml	X			X					TRIP BLANK	10/14/97		MW-973-117	1245	↓	5	2x40, 1x250 2x125	X			X	X		X	X	EQ. BLANK	10/14/97		MW-973-66	1215	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X	MW-22	Screen #2		MW-973-66 MS	1215	↓	2	40ml	X			X					Matrix Spike @ MW-22-2			MW-973-66 MSD	1215	↓	2	40ml	X			X					Matrix Spike Dup @ MW-22-2	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS							CONTAINER SIZE(S)						SAMPLE MATERIAL											VOC's	Metals	ANIONS	CF TC	ClO4	LOCATION	DEPTH	QC CODE																																																																										
				WATER	SOIL	OTHER (Describe)																																																																																																						
MW-973-116	1235	10/14/97	2	40ml	X			X					TRIP BLANK	10/14/97																																																																																														
MW-973-117	1245	↓	5	2x40, 1x250 2x125	X			X	X		X	X	EQ. BLANK	10/14/97																																																																																														
MW-973-66	1215	↓	6	2x40, 1x250 1x500, 2x125	X			X	X	X	X	X	MW-22	Screen #2																																																																																														
MW-973-66 MS	1215	↓	2	40ml	X			X					Matrix Spike @ MW-22-2																																																																																															
MW-973-66 MSD	1215	↓	2	40ml	X			X					Matrix Spike Dup @ MW-22-2																																																																																															
Reports to Be Sent to: <b>MARK CUTLER</b>				LABORATORY INSTRUCTIONS/COMMENTS:  <b>Level IV QA/QC</b>						SAMPLING COMMENTS:  <b>Samples Received @ LAB @ 3°C.</b>																																																																																																		
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/14/97		Received by: (Signature) <i>[Signature]</i>		Date:		Relinquished by: (Signature)		Date:		Received by: (Signature)																																																																																																
Company: <b>Fulenc</b>		Time: 16:29		Company: <b>MW LABS</b>		Time:		Company:		Time:		Company:																																																																																																





FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0965

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <b>4800 OAK GROVE, PASADENA, CA</b>		Sampler (Name): <b>T. CHOI</b>		Sampler: (Signature): <i>[Signature]</i>		Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>	NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS								
Laboratory: <b>MONTGOMERY LABS</b>		Reports to Be Sent to: <b>MR. MARK CUTLER</b>		ANALYSES REQUIRED											
				<b>VOCs (524.2)</b> <b>TOTAL AS CF, TB</b> <b>MAJOR ANIONS</b> <b>Cr (VI)</b> <b>C104</b>											
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs	TOTAL AS CF, TB	MAJOR ANIONS	Cr (VI)	C104	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-118	1400	10/15/97	2	2x40mL	X			X					TRIP BLANK		
MW-973-119	1430	10/15/97	5	2x40mL, 1x250mL, 2x125mL	X			X	X	X	X		EQUIPMENT BLANK		
MW-973-65	1505	10/15/97	6	2x40mL, 1x1L, 1x500mL, 2x125mL	X			X	X	X	X		MW-22, SCREEN 1		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
<b>LEVEL II QA/QC</b>												<b>ALL SAMPLES DELIVERED @ 3°C</b>			
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/15/97</b>	Received by: (Signature) <i>[Signature]</i>		Relinquished by: (Signature)		Date:	Received by: (Signature)							
Company: <b>FW</b>		Time: <b>16:19</b>	Company: <b>MONTGOMERY WATSON</b>		Company:		Time:	Company:							



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0966

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : JPL		OFS No. 1572		HAZARD IDENTIFICATION: Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>		Time Required NORMAL <input checked="" type="checkbox"/> DAYS RUSH <input type="checkbox"/> DAYS		<p>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</p>							
Project Address: 4000 OAK GROVE DR., PASADENA, CA				ANALYSES REQUIRED											
Sampler (Name): J. Brenner		Sampler: (Signature): [Signature]		<p>VOCs (524.2) TOTAL AS, Cr, Pb MAJOR ANIONS Cr (VI) ClO4</p>											
Laboratory: MONTGOMERY LABS															
Reports to Be Sent to: MR. MARK CUTLER				SAMPLE MATERIAL		LOCATION			DEPTH		QC CODE				
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs	TOTAL AS, Cr, Pb	MAJOR ANIONS	Cr (VI)	ClO4	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-120	1000	10/16/97	2	2x40ml	X			X					TRIP BLANK	10/16/97	
MW-973-121	1015	10/16/97	5	2x40ml 1x25ml 2x125ml	X			X	X	X	X		EQUIP. BLANK	10/16/97	
MW-973-71	1350	10/16/97	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	QC SAMPLE	MW-23, SCREEN # 2		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
LEVEL III QA/QC												ALL SAMPLES DELIVERED TO LAB AT 3°C			
Relinquished by: (Signature) [Signature]		Date: 10/16/97		Received by: (Signature) [Signature]		Date:		Relinquished by: (Signature)		Date:		Received by: (Signature)			
Company: FW ENC		Time: 1450		Company: MW LAB		Company:		Company:		Company:		Company:			



**FOSTER WHEELER ENVIRONMENTAL CORPORATION**  
**CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS**

Ice partially melted

No 0979

Page 1 of 1

Project: <b>JPL</b>			OFS No. <b>1572</b>			HAZARD IDENTIFICATION: Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>			Time Required NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS			<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>			
Project Address: <b>4800 OAK GROVE, PASADENA, CA</b>						<b>ANALYSES REQUIRED</b> VOCs (52+2) TOTAL AS Pb: C MAJOR ANIONS Cl(VI) ClO4									
Sampler (Name): <b>J. BRENNER</b>			Sampler (Signature): <i>J. Brenner</i>												
Laboratory: <b>MONTGOMERY LABS</b>						Reports to Be Sent to: <b>MR. MARK CUTLER</b>									
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (52+2)	TOTAL AS Pb: C	MAJOR ANIONS	Cl(VI)	ClO4	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-122	0815	10/21/97	2	2x40ml	X			X					TRIP BLANK	10/21/97	
MW-973-123	0820		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X	EQUIP. BLANK	10/21/97	
MW-973-72	0845		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X	*QC SAMPLE MW-23, SCREEN #3		
MW-973-73	1300		6	2x40ml 1x500ml 2x125ml 1x100ml	X			X	X	X	X	X	MW-23, SCREEN #4 (HEMSD METALS)		
MW-973-74	1430		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X	MW-23, SCREEN #5		
LABORATORY INSTRUCTIONS/COMMENTS:  <b>LEVEL II QA/QC</b>												SAMPLING COMMENTS:  <b>ALL SAMPLES RELIVERED TO LAB AT 3°C</b>			
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/21		Received by: (Signature) <i>Warren</i>		Relinquished by: (Signature)		Date:		Received by: (Signature)					
Company: <b>ANC</b>		Time: 1634		Company: <b>MONTGOMERY WATSON</b>		Company:		Time:		Company:					



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0967

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project: <u>JPL</u>		OFS No. <u>1572</u>		HAZARD IDENTIFICATION:		Time Required						
Project Address: <u>4800 OAK GROVE, PASADENA, CA</u>		Sampler (Name): <u>J. BRENNER</u>		Nonhazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		Reactive <input type="checkbox"/> Toxic <input type="checkbox"/> Infectious <input type="checkbox"/>						
Laboratory: <u>MONTGOMERY LABS</u>		Sampler (Signature): <u>[Signature]</u>		ANALYSES REQUIRED				THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY				
Reports to Be Sent to: <u>MR. MARK CUTLER</u>				<u>VOCs (SZA-2)</u> <u>TOTAL AS, Cr, &amp; Pb</u> <u>MAJOR ANIONS</u> <u>Cr (VI)</u> <u>ClO4</u> <u>TRIBUTYLAMINE</u>								
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL				LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)					
MW-973-124	1120	10/22/97	2	2x40ml	X				X			TRIP BLANK 10/22/97
MW-973-125	1125	10/22/97	5	2x40ml 1x150ml 2x125ml	X				X	X	X	EDJIP BLANK 10/22/97
MW-973-70	1105	10/22/97	6	2x40ml 1x250ml 2x125ml 1x500ml	X				X	X	X	QC SAMPLE MW-23 SCREEN #1
MW-973-70MS	1105	10/22/97	2	2x40ml	X				X			MW-23-1 MATRIX SPIKE
MW-973-70MS2	1105	10/22/97	2	2x40ml	X				X			MW-23-1 MATRIX SPIKE DUP?
MW-973-16	1500	10/22/97	9	2x40ml 1x250ml 2x125ml 1x500ml 2x40, 1x250	X				X	X	X	MW-8
MW-973-14	1625	10/22/97	6	2x40, 1x250 1x500, 2x125	X			X	X	X	MW-6	
LABORATORY INSTRUCTIONS/COMMENTS:								SAMPLING COMMENTS:				
LEVEL <u>IX</u> QA/QC <u>[Signature]</u>								ALL SAMPLES DELIVERED TO LABS AT 3°C				
Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>10-22-97</u>		Received by: (Signature) <u>M. DE WES</u>		Date:		Received by: (Signature)				
Company: <u>FUGRO</u>		Time: <u>1707</u>		Company: <u>MONTGOMERY WATSON</u>		Time:		Company:				



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0468

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>				
Project Address: <b>4800 OAK GROVE DR PASADENA CA</b>		Sampler (Name): <b>J. BRENNER</b>		Sampler: (Signature): <i>[Signature]</i>		Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>					NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS	
Laboratory: <b>MONTGOMERY LABS</b>		Reports to Be Sent to: <b>MR. MARK CUTLER</b>		ANALYSES REQUIRED								
				<b>VOCS (54.2)</b> <b>TOTAL ASG, Pb</b> <b>MAJOR IONICS</b> <b>CL- (V)</b> <b>ClO4</b>								
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			LOCATION	DEPTH	QC CODE		
					WATER	SOIL	OTHER (Describe)					
MW-973-126	0815	10/27/97	2	2x40ml	X			X		TRIP BLANK 10/27/97		
MW-973-13	0830	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X X X X X		QC SAMPLE MW-5		
MW-973-18	1050	↓	6	↓	X			X X X X X		MW-10		
MW-973-19	1100	↓	5	2x40ml 1x250ml 2x125ml	X			X X X X X		MW-10 (DUPLICATE)		
MW-973-38	1320	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X X X X X		MW-15		
LABORATORY INSTRUCTIONS/COMMENTS:								SAMPLING COMMENTS:				
<b>LEVEL II QA/QC</b>								<b>ALL SAMPLES DELIVERED TO LAB AT 3'C</b>				
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>1526</b>		Received by: (Signature) <i>[Signature]</i>		Date:		Received by: (Signature)				
Company: <b>Jenc</b>		Time: <b>10/27/97</b>		Company: <b>MW LABS</b>		Time:		Company:				



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0959

## CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : JPL		OFS No. 1572		HAZARD IDENTIFICATION:			Time Required							
Project Address: 4800 OAK GROVE, PASADENA, CA		Sampler (Name): J. BRENNER			Sampler (Signature): [Signature]			Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>						
Laboratory: MONTGOMERY LABS		Reports to Be Sent to: MR. MARK CUTLER			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					LOCATION	DEPTH	QC CODE	
						WATER	SOIL				OTHER (Describe)			
MW-973-127		0800	10/28/97	2	2x40ml	X						VOCs (BZ+Z)		
MW-973-17		1040		6	2x40ml (1x500ml) 2x125ml (1x12)	X						TOTAL AG, C, P, B	X	QC SAMPLE
MW-973-01		1205		6	2x40ml (1x250ml) 2x125ml (1x500ml)	X						MAJOR ANIONS	X	
MW-973-01MS		1205		2	2x40ml	X			GF (V.I.)	X				
MW-973-01MS2		1205		2	2x40ml	X			ClO4	X				
LABORATORY INSTRUCTIONS/COMMENTS:										SAMPLING COMMENTS:				
LEVEL IV QA/QC										ALL SAMPLES DELIVERED TO LAB AT 3°C				
Relinquished by: (Signature)		Date:	Received by: (Signature)		Relinquished by: (Signature)		Date:	Received by: (Signature)						
Company:		Time:	Company:		Company:		Time:	Company:						



FOSTER WHEELER ENVIRONMENTAL CORPORATION

No 0952

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

Page 1 of 1

Project : <b>JPL</b>		OFS No. <b>1572</b>		HAZARD IDENTIFICATION:		Time Required		<b>THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY</b>							
Project Address: <b>4800 OAK GROVE, PASADENA</b>		Sampler (Name): <b>T. SLANEY/MLOSI</b>		Sampler (Signature): <i>[Signature]</i>		Nonhazard <input checked="" type="checkbox"/> Reactive <input type="checkbox"/> Flammable <input type="checkbox"/> Toxic <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Infectious <input type="checkbox"/>						NORMAL <input checked="" type="checkbox"/> _____ DAYS RUSH <input type="checkbox"/> _____ DAYS			
Laboratory: <b>MONTGOMERY LABS</b>		Reports to Be Sent to: <b>MARK CUTLER</b>		ANALYSES REQUIRED											
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOLS	Total As, Cr, Pb	ANIONS	C.(vi)	CID4	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)								
MW-973-128	0800	10/29/97	2	2x40ml	X			X					TRIP BLANK/O-29-77		
MW-973-15	0840	10/29/97	6	2x40ml 1x50ml 2x25ml 1x50	X			X	X	X	X	X	QC sample	MW-7	
MW-973-121	0900	10/29/97	2	2x40ml	X			X					PE Samples lot # 1021-97-09		
LABORATORY INSTRUCTIONS/COMMENTS:												SAMPLING COMMENTS:			
LEVEL IV QA/QC												ALL SAMPLES DELIVERED TO LABS AT 3°C			
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/29/97		Received by: (Signature) <i>[Signature]</i>		Date:		Relinquished by: (Signature)		Date:		Received by: (Signature)			
Company: <i>[Signature]</i>		Time: 16:15		Company: MW				Company:				Company:			