MWH Laboratories
MONTGOMERY WATSON HARZA

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

Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE
OCT 1 0 2002
MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 101270
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 8 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

101270

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS: * USED REGULAR ICE.

SAMPLES CHECKED/LOGGED IN BY: MLD

SAMPLE TEMP, RECEIPT AT LAB 12 °c (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? ☐ (check for yes)

BLUE ICE: FROZEN ___ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD ____ 1 week ____ 3 day X 1 day ____

(check for yes)
NON-COMPLIANCE SAMPLES ☐
COMPLIANCE SAMPLES ☐
- Requires state forms ☐

REGULATION: ____ (SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: FWENC

P.O.# / PROJECT JOB #: 037352 / 2423.0003

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE: David Tietje

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX *	GRAB	COMP	ClO_4^-	NO_3^-	Ac	SAMPLER COMMENTS
10/2	1023	JPL	FPBR7-INF-1	RGW	X		X	X		
10/2	1025	JPL	FPBR7-INF-2	RGW	X				X	
10/2	1026	JPL	FPBR7-INF-3	RGW	X				X	
10/2	1028	JPL	FPBR7-~~INF~~ EFF-4	GW	X		X	X	X	
10/2	1031	JPL	FPBR7-EFF-5	GW	X		X	X	X	
10/2	1033	JPL	FPBR7-EFF-6	GW	X		X	X	X	
10/2	1036	JPL	FPBR7-EFF-7	GW	X		X	X	X	
10/2	1038	JPL	FPBR7-EFF-8	GW	X		X	X	X	
~~10/2~~										

* MATRIX TYPES:

Reported by Volume:
RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:
SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:		Patrick Tinnes	Foster Wheeler	10-2-2	11:05
RECEIVED BY:		M. DE MESA	M.W.H.	10-2-2	11:05
RELINQUISHED BY:					
RECEIVED BY:					

SCANNED

C-O-C# ____ PAGE ____ OF ____

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Laboratory Hits Report #101270

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
02-oct-2002 15:32:24

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210020143	**FPBR7-INF-1**			
10/04/02	Nitrate as NO3 by IC		48	mg/l	.880
10/04/02	Nitrate as Nitrogen by IC		11	mg/l	.200
10/04/02	Perchlorate		8300	ug/l	******
	2210020144	**FPBR7-INF-2**			
10/07/02	Acetate		53	mg/l	6.000
	2210020145	**FPBR7-INF-3**			
10/07/02	Acetate		12	mg/l	6.000
	2210020146	**FPBR7-EFF-4**			
10/02/02	Nitrate as NO3 by IC		4.4	mg/l	.880
10/02/02	Nitrate as Nitrogen by IC		1.0	mg/l	.200
10/07/02	Acetate		59	mg/l	6.000
10/05/02	Perchlorate		5200	ug/l	******
	2210020149	**FPBR7-EFF-5**			
10/02/02	Nitrate as NO3 by IC		12	mg/l	.880
10/02/02	Nitrate as Nitrogen by IC		2.8	mg/l	.200
10/07/02	Acetate		54	mg/l	6.000
10/04/02	Perchlorate		4400	ug/l	******
	2210020150	**FPBR7-EFF-6**			
10/07/02	Acetate		77	mg/l	6.000
10/04/02	Perchlorate		5100	ug/l	******

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory Hits Report #101270

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
02-oct-2002 15:32:24

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210020151	**FPBR7-EFF-7**			
	2210020151	**FPBR7-EFF-7**			
10/02/02	Nitrate as NO3 by IC		5.3	mg/l	.880
10/02/02	Nitrate as Nitrogen by IC		1.2	mg/l	.200
10/07/02	Acetate		73	mg/l	6.000
10/04/02	Perchlorate		3500	ug/l	******
	2210020152	**FPBR7-EFF-8**			
10/07/02	Acetate		88	mg/l	6.000

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Data Report
#101270

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10/02/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR7-INF-1 (2210020143) Sampled on 10/02/02 10:23								
	10/04/02 00:00	182607	(CADHS/EPA314)	Perchlorate	8300	ug/l	2000	500
			Nitrate by IC as NO3 & N					
	10/04/02 10:17	182676	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	10/04/02 10:17	182676	(ML/EPA 300.0)	Nitrate as NO3 by IC	48	mg/l	0.88	2
FPBR7-INF-2 (2210020144) Sampled on 10/02/02 10:25								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	53	mg/l	6.0	6
FPBR7-INF-3 (2210020145) Sampled on 10/02/02 10:26								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	12	mg/l	6.0	6
FPBR7-EFF-4 (2210020146) Sampled on 10/02/02 10:28								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	59	mg/l	6.0	6
	10/05/02 00:00	182618	(CADHS/EPA314)	Perchlorate	5200	ug/l	800	200
			Nitrate by IC as NO3 & N					
	10/02/02 16:57	182682	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.0	mg/l	0.20	2
	10/02/02 16:57	182682	(ML/EPA 300.0)	Nitrate as NO3 by IC	4.4	mg/l	0.88	2
FPBR7-EFF-5 (2210020149) Sampled on 10/02/02 10:31								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	54	mg/l	6.0	6
	10/04/02 00:00	182607	(CADHS/EPA314)	Perchlorate	4400	ug/l	800	200
			Nitrate by IC as NO3 & N					
	10/02/02 17:07	182684	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	2.8	mg/l	0.20	2
	10/02/02 17:07	182684	(ML/EPA 300.0)	Nitrate as NO3 by IC	12	mg/l	0.88	2

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Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR7-EFF-6 (2210020150) Sampled on 10/02/02 10:33								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	77	mg/l	6.0	6
	10/04/02 00:00	182607	(CADHS/EPA314)	Perchlorate	5100	ug/l	800	200
Nitrate by IC as NO3 & N								
	10/02/02 17:18	182685	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/02/02 17:18	182685	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR7-EFF-7 (2210020151) Sampled on 10/02/02 10:36								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	73	mg/l	6.0	6
	10/04/02 00:00	182607	(CADHS/EPA314)	Perchlorate	3500	ug/l	800	200
Nitrate by IC as NO3 & N								
	10/02/02 17:29	182686	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.2	mg/l	0.20	2
	10/02/02 17:29	182686	(ML/EPA 300.0)	Nitrate as NO3 by IC	5.3	mg/l	0.88	2
FPBR7-EFF-8 (2210020152) Sampled on 10/02/02 10:38								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	88	mg/l	6.0	6
	10/04/02 00:00	182607	(CADHS/EPA314)	Perchlorate	ND	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/02/02 17:39	182687	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/02/02 17:39	182687	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Laboratory
QC Summary
#101270

Foster Wheeler Environ. Inc.

QC Ref #182607 - Perchlorate **Analysis Date: 10/04/2002**

2210020143	FPBR7-INF-1
2210020149	FPBR7-EFF-5
2210020150	FPBR7-EFF-6
2210020151	FPBR7-EFF-7
2210020152	FPBR7-EFF-8

QC Ref #182618 - Perchlorate **Analysis Date: 10/05/2002**

2210020146	FPBR7-EFF-4

QC Ref #182676 - Nitrate by IC as NO3 & N **Analysis Date: 10/04/2002**

2210020143	FPBR7-INF-1

QC Ref #182682 - Nitrate by IC as NO3 & N **Analysis Date: 10/02/2002**

2210020146	FPBR7-EFF-4

QC Ref #182684 - Nitrate by IC as NO3 & N **Analysis Date: 10/02/2002**

2210020149	FPBR7-EFF-5

QC Ref #182685 - Nitrate by IC as NO3 & N **Analysis Date: 10/02/2002**

2210020150	FPBR7-EFF-6

QC Ref #182686 - Nitrate by IC as NO3 & N **Analysis Date: 10/02/2002**

2210020151	FPBR7-EFF-7

QC Ref #182687 - Nitrate by IC as NO3 & N **Analysis Date: 10/02/2002**

2210020152	FPBR7-EFF-8

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Laboratory
QC Report
#101270

Foster Wheeler Environ. Inc.

QC Ref #182607 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09180124	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	1.7
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	24.5	UGL	98.0	(80-120)	
MSD	Perchlorate	25.0	24.2	UGL	96.8	(80-120)	1.2

QC Ref #182618 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09170196	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	5.3
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	24	UGL	96.0	(80-120)	
MSD	Perchlorate	25.0	23.2	UGL	92.8	(80-120)	3.4

QC Ref #182676 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10040080	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.60	MGL	104.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	0.77
MS	Nitrate-N	2.5	2.55	MGL	102.0	(90-110)	
MSD	Nitrate-N	2.5	2.54	MGL	101.6	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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Foster Wheeler Environ. Inc.
(continued)

QC Ref #182682 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020015	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.65	MGL	106.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	1.1
MS	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
MSD	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #182684 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020015	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.65	MGL	106.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	1.1
MS	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
MSD	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #182685 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020015	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.65	MGL	106.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	1.1
MS	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
MSD	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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Foster Wheeler Environ. Inc.
(continued)

QC Ref #182686 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020015	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.65	MGL	106.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	1.1
MS	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
MSD	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #182687 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020015	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.65	MGL	106.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	1.1
MS	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
MSD	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
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Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE

OCT 0 8 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 100713
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 4 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

100713

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB _____ (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? ☐ (check for yes)

BLUE ICE: FROZEN ___ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD_____ 1 week _____ 3 day X 1 day _____

(check for yes)

NON-COMPLIANCE SAMPLES ☐
COMPLIANCE SAMPLES ☐
- Requires state forms ☐

REGULATION: _____ (SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: FW BNC

P.O.# / PROJECT JOB #: 0373521 2423.0003

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE: David Tietje

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX*	GRAB	COMP	ClO_4^-	NO_3	Acetate											SAMPLER COMMENTS
9/17	1354	JPL	FPBR7-INF-1	RGW	X		X	X												
9/17	1356	JPL	FPBR7-INF-2	RGW	X				X											
9/17	1358	JPL	FPBR7-EFF-4	GW	X		X	X												
9/17	1400	JPL	FPBR7-EFF-6	GW	X		X	X												

9/17/02

* MATRIX TYPES:

Reported by Volume:

RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:

SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	David Tietje	David Tietje	Foster Wheeler	9/17/02	1440
RECEIVED BY:	[illegible]	[illegible]	[illegible]	9/17/02	14:40
RELINQUISHED BY:					
RECEIVED BY:					

SCANNED

C-O-C# _____

PAGE _____ OF _____

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Laboratory
Hits Report
#100713

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
17-sep-2002 16:15:11

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209170130	**JPL FPBR 7-INF-1**			
09/17/02	Nitrate as NO3 by IC		0.80	mg/l	.440
09/17/02	Nitrate as Nitrogen by IC		0.18	mg/l	.100
	2209170131	**JPL FPBR 7-INF-2**			
10/07/02	Acetate		130	mg/l	10.000
	2209170132	**JPL FPBR 7-EFF-4**			
	2209170133	**JPL FPBR 7-EFF-6**			

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Data Report
#100713

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
09/17/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR 7-INF-1 (2209170130) Sampled on 09/17/02 13:54								
	09/24/02 00:00	181749	(CADHS/EPA314)	Perchlorate	ND	ug/l	16	4
Nitrate by IC as NO3 & N								
	09/17/02 18:11	181195	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.18	mg/l	0.10	1
	09/17/02 18:11	181195	(ML/EPA 300.0)	Nitrate as NO3 by IC	0.80	mg/l	0.44	1
JPL FPBR 7-INF-2 (2209170131) Sampled on 09/17/02 13:56								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	130	mg/l	10	10
JPL FPBR 7-EFF-4 (2209170132) Sampled on 09/17/02 13:58								
	09/24/02 00:00	181749	(CADHS/EPA314)	Perchlorate	ND	ug/l	16	4
Nitrate by IC as NO3 & N								
	09/17/02 18:22	181195	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
	09/17/02 18:22	181195	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.44	1
JPL FPBR 7-EFF-6 (2209170133) Sampled on 09/17/02 14:00								
	09/24/02 00:00	181749	(CADHS/EPA314)	Perchlorate	ND	ug/l	16	4
Nitrate by IC as NO3 & N								
	09/17/02 18:32	181195	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
	09/17/02 18:32	181195	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.44	1

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
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Laboratory
QC Summary
#100713

Foster Wheeler Environ. Inc.

QC Ref #181195 - Nitrate by IC as NO3 & N **Analysis Date: 09/17/2002**

2209170130	JPL FPBR 7-INF-1
2209170132	JPL FPBR 7-EFF-4
2209170133	JPL FPBR 7-EFF-6

QC Ref #181749 - Perchlorate **Analysis Date: 09/24/2002**

2209170130	JPL FPBR 7-INF-1
2209170132	JPL FPBR 7-EFF-4
2209170133	JPL FPBR 7-EFF-6

MWH Laboratories
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Laboratory
QC Report
#100713

Foster Wheeler Environ. Inc.

QC Ref #181195 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09170104	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.51	MGL	100.4	(90-110)	
LCS2	Nitrate-N	2.5	2.49	MGL	99.6	(90-110)	0.80
MS	Nitrate-N	2.5	2.56	MGL	102.4	(90-110)	
MSD	Nitrate-N	2.5	2.55	MGL	102.0	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #181749 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09170133	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.8	UGL	95.2	(85-115)	
LCS2	Perchlorate	25.0	24.1	UGL	96.4	(85-115)	1.3
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	24.2	UGL	96.8	(80-120)	
MSD	Perchlorate	25.0	26.0	UGL	104.0	(80-120)	7.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE

SEP 1 8 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 100634
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 5 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

100634

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB _____ (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? ☐ (check for yes)

BLUE ICE: FROZEN ___ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD_____ 1 week _____ 3 day X 1 day _____

NON-COMPLIANCE SAMPLES ☐ (check for yes)
COMPLIANCE SAMPLES ☐
- Requires state forms

REGULATION: _____ (SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: F WENC

P.O.# / PROJECT JOB #: 037352/2423.0003

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE: Patrick Tinnes

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX *	GRAB	COMP	Perchlorate ClO_4	NO_3	Acetate												SAMPLER COMMENTS
9-13	1032	JPL	FPBR6-INF-1	RGW	X		X	X													
9-13	1035	JPL	FPBR6-INF-2	RGW	X				X												
9-13	1037	JPL	FPBR6-INF-3	RGW	X				X												
9-13	1039	JPL	FPBR6-EFF-4	GW	X		X	X	X												
9-13	1041	JPL	FPBR6-EFF-5	GW	X		X	X	X												
9-13	1045	JPL	FPBR6-EFF-6	GW	X		X	X	X												
9-13	1050	JPL	FPBR6-EFF-7	GW	X		X	X	X												

* MATRIX TYPES:

Reported by Volume:

RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:

SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:		Patrick Tinnes	Foster Wheeler	9-13-02	1240
RECEIVED BY:			MWH	9/13/02	12:40
RELINQUISHED BY:					
RECEIVED BY:					

C-O-C# _____

SCANNED

PAGE 1 OF 1

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Laboratory
Hits Report
#100634

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
13-sep-2002 17:06:21

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209130320	**FPBR6-INF-1**			
	2209130321	**FPBR6-INF-2**			
09/16/02	Acetate		370	mg/l	5.000
	2209130322	**FPBR6-INF-3**			
09/16/02	Acetate		330	mg/l	5.000
	2209130323	**FPBR6-EFF-4**			
09/16/02	Acetate		330	mg/l	5.000
	2209130324	**FPBR6-EFF-5**			
09/16/02	Acetate		380	mg/l	5.000
	2209130325	**FPBR6-EFF-6**			
09/16/02	Acetate		370	mg/l	5.000
	2209130326	**FPBR6-EFF-7**			
09/16/02	Acetate		390	mg/l	5.000

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
Data Report
#100634

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
09/13/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR6-INF-1 (2209130320) Sampled on 09/13/02 10:32								
	09/17/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR6-INF-2 (2209130321) Sampled on 09/13/02 10:35								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	370	mg/l	5.0	5
FPBR6-INF-3 (2209130322) Sampled on 09/13/02 10:37								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	330	mg/l	5.0	5
FPBR6-EFF-4 (2209130323) Sampled on 09/13/02 10:39								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	330	mg/l	5.0	5
	09/17/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR6-EFF-5 (2209130324) Sampled on 09/13/02 10:41								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	380	mg/l	5.0	5
	09/17/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Laboratory
Data Report
#100634

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR6-EFF-6 (2209130325) Sampled on 09/13/02 10:45								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	370	mg/l	5.0	5
	09/17/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR6-EFF-7 (2209130326) Sampled on 09/13/02 10:50								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	390	mg/l	5.0	5
	09/17/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/13/02 00:00	180980	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Laboratory
QC Summary
#100634

Foster Wheeler Environ. Inc.

QC Ref #180980 - Nitrate by IC as NO3 & N **Analysis Date: 09/13/2002**

2209130320	FPBR6-INF-1
2209130323	FPBR6-EFF-4
2209130324	FPBR6-EFF-5
2209130325	FPBR6-EFF-6
2209130326	FPBR6-EFF-7

QC Ref #181120 - Perchlorate **Analysis Date: 09/17/2002**

2209130320	FPBR6-INF-1
2209130323	FPBR6-EFF-4
2209130324	FPBR6-EFF-5
2209130325	FPBR6-EFF-6
2209130326	FPBR6-EFF-7

MWH Laboratories
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Laboratory
QC Report
#100634

Foster Wheeler Environ. Inc.

QC Ref #180980 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09130318	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.50	MGL	100.0	(90-110)	
LCS2	Nitrate-N	2.5	2.47	MGL	98.8	(90-110)	1.2
MS	Nitrate-N	2.5	2.43	MGL	97.2	(90-110)	
MSD	Nitrate-N	2.5	2.43	MGL	97.2	(90-110)	0.00
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #181120 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09130320	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.4	UGL	93.6	(85-115)	
LCS2	Perchlorate	25.0	26.8	UGL	107.2	(85-115)	14
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	26.0	UGL	104.0	(80-120)	
MSD	Perchlorate	25.0	27.0	UGL	108.0	(80-120)	3.8

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
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Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE

SEP 1 8 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 100436
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 5 page[s].

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: FWENC
1990 E. Deere Ave. # 200
Santa Ana, CA 92705

Project/PO Number: 037352

Project Manager: Vitthal Hosangadi

Phone Number: (949) 756-7537

Sampler: David Tietje

Fax Number: (949) 756-7560

Analysis Required

100436

TEMP 10°C
REG ICE OK

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO_4^-	NO_3^-	Ac							Special Instructions
FPBR5-INF-1	W	Poly	2	9/10/02	1250	NONE	X	X								
FPBR5-INF-2	W	Poly	1	9/10/02	1253	NONE			X							
FPBR5-INF-3	W	Poly	1	9/10/02	1254	NONE			X							
FPBR5-EFF-4	W	Poly	3	9/10/02	1255	NONE	X	X	X							
FPBR5-EFF-5	W	Poly	3	9/10/02	1258	NONE	X	X	X							
FPBR5-EFF-6	W	Poly	3	9/10/02	1300	NONE	X	X	X							
FPBR5-EFF-7	W	Poly	3	9/10/02	1302	NONE	X	X	X							

David Tietje 9-10-02

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	9-10-02 / 1330	[signature]	9-10-2 13:30
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by:	Date /Time:

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal _____

Sample Integrity: (Check)
intact _____ on ice _____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

SCANNED

MWH Laboratories
MONTGOMERY WATSON HARZA

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Pasadena, California 91101
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Fax: 626 568 6324
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Laboratory
Hits Report
#100436

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10-sep-2002 17:17:49

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209100180	**FPBR5-INF-1**			
	2209100181	**FPBR5-INF-2**			
09/16/02	Acetate		600	mg/l	5.000
	2209100182	**FPBR5-INF-3**			
09/16/02	Acetate		500	mg/l	5.000
	2209100183	**FPBR5-EFF-4**			
09/16/02	Acetate		510	mg/l	5.000
	2209100184	**FPBR5-EFF-5**			
09/16/02	Acetate		510	mg/l	5.000
	2209100185	**FPBR5-EFF-6**			
09/16/02	Acetate		590	mg/l	5.000
	2209100186	**FPBR5-EFF-7**			
09/16/02	Acetate		530	mg/l	5.000

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
Data Report
#100436

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
09/10/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR5-INF-1 (2209100180) Sampled on 09/10/02 12:50								
	09/16/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR5-INF-2 (2209100181) Sampled on 09/10/02 12:53								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	600	mg/l	5.0	5
FPBR5-INF-3 (2209100182) Sampled on 09/10/02 12:54								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	500	mg/l	5.0	5
FPBR5-EFF-4 (2209100183) Sampled on 09/10/02 12:55								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	510	mg/l	5.0	5
	09/16/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR5-EFF-5 (2209100184) Sampled on 09/10/02 12:58								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	510	mg/l	5.0	5
	09/16/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

MWH Laboratories
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Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR5-EFF-6 (2209100185) Sampled on 09/10/02 13:00								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	590	mg/l	5.0	5
	09/16/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
Nitrate by IC as NO3 & N								
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR5-EFF-7 (2209100186) Sampled on 09/10/02 13:02								
	09/16/02 00:00		(EPA 300 MOD)	Acetate	530	mg/l	5.0	5
	09/16/02 00:00	181120	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
Nitrate by IC as NO3 & N								
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/10/02 00:00	180702	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
QC Summary
#100436

Foster Wheeler Environ. Inc.

QC Ref #180702 - Nitrate by IC as NO3 & N **Analysis Date: 09/10/2002**

2209100180	FPBR5-INF-1
2209100183	FPBR5-EFF-4
2209100184	FPBR5-EFF-5
2209100185	FPBR5-EFF-6
2209100186	FPBR5-EFF-7

QC Ref #181120 - Perchlorate **Analysis Date: 09/16/2002**

2209100180	FPBR5-INF-1
2209100183	FPBR5-EFF-4
2209100184	FPBR5-EFF-5
2209100185	FPBR5-EFF-6
2209100186	FPBR5-EFF-7

MWH Laboratories
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Laboratory
QC Report
#100436

Foster Wheeler Environ. Inc.

QC Ref #180702 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09100054	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.54	MGL	101.6	(90-110)	
LCS2	Nitrate-N	2.5	2.52	MGL	100.8	(90-110)	0.79
MS	Nitrate-N	2.5	2.55	MGL	102.0	(90-110)	
MSD	Nitrate-N	2.5	2.54	MGL	101.6	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #181120 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09130320	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.4	UGL	93.6	(85-115)	
LCS2	Perchlorate	25.0	26.8	UGL	107.2	(85-115)	14
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	26.0	UGL	104.0	(80-120)	
MSD	Perchlorate	25.0	27.0	UGL	108.0	(80-120)	3.8

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.