



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/6/2009

TRC SOLUTIONS - LOWELL
 650 SUFFOLK STREET
 LOWELL, MA 01852
 ATTN: DAVID SULLIVAN

CONTRACT NUMBER:
 PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23529
 JOB NUMBER: 115058

PROJECT LOCATION: CITY OF NEW BEDFORD(WALSH)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
WFF5-A(0-1)	09B05723	SOIL	Not Specified	cd (mg/kg)dw icp	
WFF5-A(0-1)	09B05723	SOIL	Not Specified	pah - sludge	
WFF5-A(0-1)	09B05723	SOIL	Not Specified	pb (mg/kg)dw icp	
WFF5-A(0-1)	09B05723	SOIL	Not Specified	solids (percent)	
WFF5-A(1-3)QC	09B05724	SOIL	Not Specified	cd (mg/kg)dw icp	
WFF5-A(1-3)QC	09B05724	SOIL	Not Specified	pah - sludge	
WFF5-A(1-3)QC	09B05724	SOIL	Not Specified	pb (mg/kg)dw icp	
WFF5-A(1-3)QC	09B05724	SOIL	Not Specified	solids (percent)	
WFF5-B(0-1)	09B05725	SOIL	Not Specified	cd (mg/kg)dw icp	
WFF5-B(0-1)	09B05725	SOIL	Not Specified	pah - sludge	
WFF5-B(0-1)	09B05725	SOIL	Not Specified	pb (mg/kg)dw icp	
WFF5-B(0-1)	09B05725	SOIL	Not Specified	solids (percent)	
WFF5-B(1-3)	09B05726	SOIL	Not Specified	cd (mg/kg)dw icp	
WFF5-B(1-3)	09B05726	SOIL	Not Specified	pah - sludge	
WFF5-B(1-3)	09B05726	SOIL	Not Specified	pb (mg/kg)dw icp	
WFF5-B(1-3)	09B05726	SOIL	Not Specified	solids (percent)	
WFF5-C(0-1)	09B05721	SOIL	Not Specified	cd (mg/kg)dw icp	
WFF5-C(0-1)	09B05721	SOIL	Not Specified	pah - sludge	
WFF5-C(0-1)	09B05721	SOIL	Not Specified	pb (mg/kg)dw icp	
WFF5-C(0-1)	09B05721	SOIL	Not Specified	solids (percent)	
WFF5-C(1-3)	09B05722	SOIL	Not Specified	cd (mg/kg)dw icp	
WFF5-C(1-3)	09B05722	SOIL	Not Specified	pah - sludge	
WFF5-C(1-3)	09B05722	SOIL	Not Specified	pb (mg/kg)dw icp	
WFF5-C(1-3)	09B05722	SOIL	Not Specified	solids (percent)	



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ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23529
JOB NUMBER: 115058

Comments :

LIMS BATCH NO. : LIMIT-23529

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below:
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:
All properly preserved

In method 8270, for sample 09B05724, matrix spike and matrix spike duplicate recoveries for Benzo(g,h,i)perylene, Fluoranthene, Indeno(1,2,3-cd)pyrene, and Pyrene are biased on the low side. Analysis is in control based on laboratory control sample. Possibility of sample matrix effects that lead to low bias for reported results cannot be eliminated.

There are no analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846 6010 - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on sample 09B05724.
The ms recovery is outside control limits for Lead. Sample to spike ratio >4:1 therefore a representative recovery may not be obtainable. Analysis in control.

Only Cd and Pb requested and reported.

METHOD SW846 8270 - ADDITIONAL DETAILS

Solid samples, if any, in the batch were extracted by the following method:
Microwave: SW-846 3546

All 8270 samples were analyzed undiluted unless specified below:

Sample	Dilution(s)
09B05722	x5 (oily extract)
09B05724	x2 (oily extract)

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative.

Difficult analytes for soil LCS - limits between 10 and 180% depending on the compound (see QC summary report for limits): 3,3'-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.

Difficult analytes for water LCS - limits between 10 and 150% depending on the compound (see QC summary report for limits): dimethylphthalate, bis(2-chloroisopropyl)ether, 4-nitrophenol, and phenol.

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or



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ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23529
JOB NUMBER: 115058

30% for soil except for "difficult analytes" where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative.

Difficult analytes for water RPDs: aniline, benzo(a,h)anthracene, dimethylphthalate, hexachloroethane, indeno(1,2,3-cd)pyrene, 2,4-dinitrophenol, 4-nitrophenol, 2,4,6-trichlorophenol, and pentachlorophenol.

Difficult analytes for soil RPDs: 3,3'-dichlorobenzidine, 4-nitrophenol, and aniline.

Compounds outside of control limits: None outside of control limits

8270 QC Surrogate Recoveries

BLANK-130347

Nitrobenzene-d5: 96.6%
2-Fluorobiphenyl: 96.4%
Terphenyl-d14: 108%

LFBLANK-92517	LFB	LFB Duplicate
Nitrobenzene-d5:	88.2%	88.5%
2-Fluorobiphenyl:	93.4%	90.6%
Terphenyl-d14:	116%	123%

Matrix Spike Sample 09B05724	MS	MS Duplicate
Nitrobenzene-d5:	82.3%	85.3%
2-Fluorobiphenyl:	79.4%	84.3%
Terphenyl-d14:	76.3%	84.6%

In method 8270, for sample 09B05724, either matrix spike or matrix spike duplicate recovery is outside of control limits for Benzo(a)anthracene, Chrysene, and Phenanthrene, but the other is within limits. Outlier should be viewed as a one-time anomaly.

In method 8270, only PAH compounds were requested and reported.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Danson 3/6/09
SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director



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ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23529

JOB NUMBER: 115058

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample



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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-C(1-3)

Sample ID: 09B05722

‡Sampled: 2/25/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cadmium	mg/kg dry wt	ND	03/03/09	KSH	0.31		

Analytical Method:
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-A(0-1)

Sample ID: 09B05723

‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Acenaphthylene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Anthracene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Benzo(a)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Benzo(a)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Benzo(b)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Benzo(g,h,i)perylene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Benzo(k)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Chrysene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Dibenz(a,h)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Fluorene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.199		
2-Methylnaphthalene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Naphthalene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Phenanthrene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Pyrene	mg/kg dry wt	ND	03/05/09	FD	0.199		
Extraction Date 8270		2/28/2009	03/05/09	FD			

Analytical Method:

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Project Location: CITY OF NEW BEDFORD(WALSH)
 Date Received: 2/25/2009

LIMS-BAT #: LIMIT-23529
 Job Number: 115058

Field Sample #: WFF5-A(1-3)QC

Sample ID: *09B05724 ‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acenaphthene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Acenaphthylene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Anthracene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Benzo(a)anthracene	mg/kg dry wt	1.28	03/05/09	FD	0.387			
Benzo(a)pyrene	mg/kg dry wt	1.00	03/05/09	FD	0.387			
Benzo(b)fluoranthene	mg/kg dry wt	1.17	03/05/09	FD	0.387			
Benzo(g,h,i)perylene	mg/kg dry wt	0.402	03/05/09	FD	0.387			
Benzo(k)fluoranthene	mg/kg dry wt	0.507	03/05/09	FD	0.387			
Chrysene	mg/kg dry wt	1.46	03/05/09	FD	0.387			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Fluoranthene	mg/kg dry wt	1.68	03/05/09	FD	0.387			
Fluorene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	0.503	03/05/09	FD	0.387			
2-Methylnaphthalene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Naphthalene	mg/kg dry wt	ND	03/05/09	FD	0.387			
Phenanthrene	mg/kg dry wt	1.50	03/05/09	FD	0.387			
Pyrene	mg/kg dry wt	2.59	03/05/09	FD	0.387			
Extraction Date 8270		2/28/2009	03/05/09	FD				

Analytical Method:

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-B(0-1)

Sample ID: 09B05725

‡Sampled: 2/25/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Acenaphthylene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Anthracene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Benzo(a)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Benzo(a)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Benzo(b)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Benzo(g,h,i)perylene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Benzo(k)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Chrysene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Dibenz(a,h)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Fluorene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.198		
2-Methylnaphthalene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Naphthalene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Phenanthrene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Pyrene	mg/kg dry wt	ND	03/05/09	FD	0.198		
Extraction Date 8270		2/28/2009	03/05/09	FD			

Analytical Method:

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-B(1-3)

Sample ID: 09B05726

‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acenaphthene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Acenaphthylene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Anthracene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Benzo(a)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Benzo(a)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Benzo(b)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Benzo(k)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Chrysene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Fluorene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.186			
2-Methylnaphthalene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Naphthalene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Phenanthrene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Pyrene	mg/kg dry wt	ND	03/05/09	FD	0.186			
Extraction Date 8270		2/28/2009	03/05/09	FD				

Analytical Method:

SW846 8270

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-C(0-1)

Sample ID: 09B05721

‡Sampled: 2/25/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acenaphthene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Acenaphthylene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Anthracene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Benzo(a)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Benzo(a)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Benzo(b)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Benzo(k)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Chrysene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Fluoranthene	mg/kg dry wt	0.306	03/05/09	FD	0.216			
Fluorene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	03/05/09	FD	0.216			
2-Methylnaphthalene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Naphthalene	mg/kg dry wt	ND	03/05/09	FD	0.216			
Phenanthrene	mg/kg dry wt	0.267	03/05/09	FD	0.216			
Pyrene	mg/kg dry wt	0.406	03/05/09	FD	0.216			
Extraction Date 8270		2/28/2009	03/05/09	FD				

Analytical Method:

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-C(1-3)

Sample ID: 09B05722

‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acenaphthene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Acenaphthylene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Anthracene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Benzo(a)anthracene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Benzo(a)pyrene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Benzo(b)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Benzo(k)fluoranthene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Chrysene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Fluoranthene	mg/kg dry wt	1.06	03/05/09	FD	1.02			
Fluorene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	03/05/09	FD	1.02			
2-Methylnaphthalene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Naphthalene	mg/kg dry wt	ND	03/05/09	FD	1.02			
Phenanthrene	mg/kg dry wt	1.34	03/05/09	FD	1.02			
Pyrene	mg/kg dry wt	1.70	03/05/09	FD	1.02			
Extraction Date 8270		2/28/2009	03/05/09	FD				

Analytical Method:

SW846 8270

SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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DAVID SULLIVAN
 TRC SOLUTIONS - LOWELL
 650 SUFFOLK STREET
 LOWELL, MA 01852

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-A(0-1)

Sample ID: 09B05723 ‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Lead	mg/kg dry wt	18.3	03/03/09	KSH	0.90			

Field Sample #: WFF5-A(1-3)QC

Sample ID: 09B05724 ‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Lead	mg/kg dry wt	139	03/03/09	KSH	0.88			

Field Sample #: WFF5-B(0-1)

Sample ID: 09B05725 ‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Lead	mg/kg dry wt	13.0	03/03/09	KSH	0.90			

Field Sample #: WFF5-B(1-3)

Sample ID: 09B05726 ‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Lead	mg/kg dry wt	9.16	03/03/09	KSH	0.84			

Field Sample #: WFF5-C(0-1)

Sample ID: 09B05721 ‡Sampled: 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Lead	mg/kg dry wt	25.2	03/03/09	KSH	0.97			

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-C(1-3)

Sample ID: 09B05722

‡Sampled: 2/25/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	96.4	03/03/09	KSH	0.92		

Analytical Method:

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)
 Date Received: 2/25/2009

LIMS-BAT #: LIMIT-23529
 Job Number: 115058

Field Sample # : WFF5-A(0-1)

Sample ID : 09B05723 ‡Sampled : 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.0	03/04/09	FD			

Field Sample # : WFF5-A(1-3)QC

Sample ID : 09B05724 ‡Sampled : 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.2	03/04/09	FD			

Field Sample # : WFF5-B(0-1)

Sample ID : 09B05725 ‡Sampled : 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.2	03/04/09	FD			

Field Sample # : WFF5-B(1-3)

Sample ID : 09B05726 ‡Sampled : 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	89.8	03/04/09	FD			

Field Sample # : WFF5-C(0-1)

Sample ID : 09B05721 ‡Sampled : 2/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	77.5	03/04/09	FD			

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)

LIMS-BAT #: LIMIT-23529

Date Received: 2/25/2009

Job Number: 115058

Field Sample #: WFF5-C(1-3)

Sample ID: 09B05722

‡Sampled: 2/25/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	82.2	03/04/09	FD			

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)
Date Received: 2/25/2009

LIMS-BAT #: LIMIT-23529
Job Number: 115058

The following notes were attached to the reported analysis :

Sample ID: * 09B05724

Analysis: Benzo(a)anthracene

MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE OF CONTROL LIMITS, BUT MATRIX SPIKE RECOVERY IS WITHIN LIMITS. OUTLIER SHOULD BE VIEWED AS A ONE TIME ANOMALY.

Sample ID: * 09B05724

Analysis: Benzo(g,h,i)perylene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

Sample ID: * 09B05724

Analysis: Chrysene

MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE OF CONTROL LIMITS, BUT MATRIX SPIKE RECOVERY IS WITHIN LIMITS. OUTLIER SHOULD BE VIEWED AS A ONE TIME ANOMALY.

Sample ID: * 09B05724

Analysis: Fluoranthene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

Sample ID: * 09B05724

Analysis: Indeno(1,2,3-cd)pyrene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

Sample ID: * 09B05724

Analysis: Phenanthrene

MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE OF CONTROL LIMITS, BUT MATRIX SPIKE RECOVERY IS WITHIN LIMITS. OUTLIER SHOULD BE VIEWED AS A ONE TIME ANOMALY.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD(WALSH)
Date Received: 2/25/2009

LIMS-BAT #: LIMIT-23529
Job Number: 115058

Sample ID: * 09B05724

Analysis: Pyrene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL
BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX
EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/6/2009

Lims Bat # : LIMIT-23529

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B05721	Nitrobenzene-d5	Surrogate Recovery	72.2	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	52.2	%	30-130
	Terphenyl-d14	Surrogate Recovery	61.2	%	30-130
09B05722	Nitrobenzene-d5	Surrogate Recovery	100.0	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	95.0	%	30-130
	Terphenyl-d14	Surrogate Recovery	110.0	%	30-130
09B05723	Nitrobenzene-d5	Surrogate Recovery	69.8	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	55.2	%	30-130
	Terphenyl-d14	Surrogate Recovery	68.8	%	30-130
09B05724	Naphthalene	Sample Amount	<0.387	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	1.508	mg/kg dry wt	
		Matrix Spike % Rec.	78.040	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	1.503	mg/kg dry wt	
	Acenaphthene	MSD % Recovery	77.759	%	
		MSD Range	0.280	units	
		MS Duplicate RPD	0.359	%	0-30
		Sample Amount	<0.387	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	1.482	mg/kg dry wt	
	Acenaphthylene	Matrix Spike % Rec.	76.680	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	1.511	mg/kg dry wt	
MSD % Recovery		78.200	%		
MSD Range		1.520	units		
MS Duplicate RPD		1.962	%	0-30	
Anthracene	Sample Amount	<0.387	mg/kg dry wt		
	Matrix Spk Amt Added	1.933	mg/kg dry wt		
	MS Amt Measured	1.504	mg/kg dry wt		
	Matrix Spike % Rec.	77.799	%	40-140	
	MSD Amount Added	1.933	mg/kg dry wt		
	MSD Amt Measured	1.514	mg/kg dry wt		
	MSD % Recovery	78.320	%		
	MSD Range	0.520	units		
	MS Duplicate RPD	0.666	%	0-30	
	Sample Amount	<0.387	mg/kg dry wt		
	Matrix Spk Amt Added	1.933	mg/kg dry wt		
	MS Amt Measured	1.586	mg/kg dry wt		
	Matrix Spike % Rec.	82.040	%	40-140	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/6/2009

Lims Bat # : LIMIT-23529

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B05724	Anthracene	MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	1.567	mg/kg dry wt	
		MSD % Recovery	81.080	%	
		MSD Range	0.960	units	
		MS Duplicate RPD	1.177	%	0-30
	Benzo(a)anthracene	Sample Amount	1.280	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	2.180	mg/kg dry wt	
		Matrix Spike % Rec.	46.560	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	2.014	mg/kg dry wt	
		MSD % Recovery	37.959	%	
		MSD Range	8.600	units	
		MS Duplicate RPD	7.926	%	0-30
	Benzo(a)pyrene	Sample Amount	1.004	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	2.126	mg/kg dry wt	
		Matrix Spike % Rec.	58.040	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	1.994	mg/kg dry wt	
		MSD % Recovery	51.199	%	
		MSD Range	6.840	units	
		MS Duplicate RPD	6.417	%	0-30
	Benzo(b)fluoranthene	Sample Amount	1.172	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	2.276	mg/kg dry wt	
		Matrix Spike % Rec.	57.119	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	2.104	mg/kg dry wt	
		MSD % Recovery	48.199	%	
		MSD Range	8.920	units	
		MS Duplicate RPD	7.872	%	0-30
	Benzo(g,h,i)perylene	Sample Amount	0.402	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	1.102	mg/kg dry wt	
		Matrix Spike % Rec.	36.239	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	1.032	mg/kg dry wt	
		MSD % Recovery	32.600	%	
		MSD Range	3.639	units	
		MS Duplicate RPD	6.591	%	0-30
	Chrysene	Sample Amount	1.460	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B05724	Chrysene	MS Amt Measured	2.262	mg/kg dry wt	
		Matrix Spike % Rec.	41.440	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	2.063	mg/kg dry wt	
		MSD % Recovery	31.160	%	
		MSD Range	10.280	units	
	Dibenz(a,h)anthracene	MS Duplicate RPD	9.190	%	0-30
		Sample Amount	<0.387	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	0.890	mg/kg dry wt	
		Matrix Spike % Rec.	46.040	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
	Fluoranthene	MSD Amt Measured	0.897	mg/kg dry wt	
		MSD % Recovery	46.400	%	
		MSD Range	0.359	units	
		MS Duplicate RPD	0.778	%	0-30
		Sample Amount	1.675	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
	Fluorene	MS Amt Measured	1.978	mg/kg dry wt	
		Matrix Spike % Rec.	15.640	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
		MSD Amt Measured	1.859	mg/kg dry wt	
		MSD % Recovery	9.480	%	
		MSD Range	6.160	units	
	Indeno(1,2,3-cd)pyrene	MS Duplicate RPD	6.207	%	0-30
		Sample Amount	<0.387	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
		MS Amt Measured	1.505	mg/kg dry wt	
		Matrix Spike % Rec.	77.880	%	40-140
		MSD Amount Added	1.933	mg/kg dry wt	
	Indeno(1,2,3-cd)pyrene	MSD Amt Measured	1.510	mg/kg dry wt	
		MSD % Recovery	78.120	%	
		MSD Range	0.240	units	
		MS Duplicate RPD	0.307	%	0-30
		Sample Amount	0.502	mg/kg dry wt	
		Matrix Spk Amt Added	1.933	mg/kg dry wt	
Indeno(1,2,3-cd)pyrene	MS Amt Measured	1.245	mg/kg dry wt		
	Matrix Spike % Rec.	38.399	%	40-140	
	MSD Amount Added	1.933	mg/kg dry wt		
	MSD Amt Measured	1.184	mg/kg dry wt		
	MSD % Recovery	35.240	%		
	MSD Range	3.159	units		
Indeno(1,2,3-cd)pyrene	MS Duplicate RPD	5.030	%	0-30	

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/6/2009

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits	
09B05724	2-Methylnaphthalene	Sample Amount	<0.387	mg/kg dry wt		
		Matrix Spk Amt Added	1.933	mg/kg dry wt		
		MS Amt Measured	1.494	mg/kg dry wt		
		Matrix Spike % Rec.	77.320	%	40-140	
		MSD Amount Added	1.933	mg/kg dry wt		
		MSD Amt Measured	1.529	mg/kg dry wt		
		MSD % Recovery	79.119	%		
		MSD Range	1.799	units		
		MS Duplicate RPD	2.301	%	0-30	
		Phenanthrene	Sample Amount	1.502	mg/kg dry wt	
			Matrix Spk Amt Added	1.933	mg/kg dry wt	
			MS Amt Measured	2.333	mg/kg dry wt	
	Matrix Spike % Rec.		42.960	%	40-140	
	MSD Amount Added		1.933	mg/kg dry wt		
	MSD Amt Measured		1.993	mg/kg dry wt		
	MSD % Recovery		25.360	%		
	MSD Range		17.600	units		
	MS Duplicate RPD		15.731	%	0-30	
	Pyrene		Sample Amount	2.591	mg/kg dry wt	
			Matrix Spk Amt Added	1.933	mg/kg dry wt	
			MS Amt Measured	2.829	mg/kg dry wt	
		Matrix Spike % Rec.	12.320	%	40-140	
		MSD Amount Added	1.933	mg/kg dry wt		
		MSD Amt Measured	2.488	mg/kg dry wt		
MSD % Recovery		-5.359	%			
MSD Range		17.680	units			
MS Duplicate RPD		12.856	%	0-30		
Benzo(k)fluoranthene		Sample Amount	0.506	mg/kg dry wt		
		Matrix Spk Amt Added	1.933	mg/kg dry wt		
		MS Amt Measured	1.946	mg/kg dry wt		
	Matrix Spike % Rec.	74.480	%	40-140		
	MSD Amount Added	1.933	mg/kg dry wt			
	MSD Amt Measured	1.886	mg/kg dry wt			
	MSD % Recovery	71.360	%			
	MSD Range	3.120	units			
	MS Duplicate RPD	3.147	%	0-30		
	Nitrobenzene-d5	Surrogate Recovery	96.0	%	30-130	
		2-Fluorobiphenyl	Surrogate Recovery	86.0	%	30-130
			Terphenyl-d14	Surrogate Recovery	86.0	%
09B05725	Nitrobenzene-d5	Surrogate Recovery	73.0	%	30-130	
		2-Fluorobiphenyl	Surrogate Recovery	55.2	%	30-130
		Terphenyl-d14	Surrogate Recovery	63.0	%	30-130

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/6/2009

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B05726	Nitrobenzene-d5	Surrogate Recovery	71.4	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	67.9	%	30-130
	Terphenyl-d14	Surrogate Recovery	64.1	%	30-130
BLANK-130347	Naphthalene	Blank	<0.167	mg/kg dry wt	
	Acenaphthene	Blank	<0.167	mg/kg dry wt	
	Acenaphthylene	Blank	<0.167	mg/kg dry wt	
	Anthracene	Blank	<0.167	mg/kg dry wt	
	Benzo(a)anthracene	Blank	<0.167	mg/kg dry wt	
	Benzo(a)pyrene	Blank	<0.167	mg/kg dry wt	
	Benzo(b)fluoranthene	Blank	<0.167	mg/kg dry wt	
	Benzo(g,h,i)perylene	Blank	<0.167	mg/kg dry wt	
	Chrysene	Blank	<0.167	mg/kg dry wt	
	Dibenz(a,h)anthracene	Blank	<0.167	mg/kg dry wt	
	Fluoranthene	Blank	<0.167	mg/kg dry wt	
	Fluorene	Blank	<0.167	mg/kg dry wt	
	Indeno(1,2,3-cd)pyrene	Blank	<0.167	mg/kg dry wt	
	2-Methylnaphthalene	Blank	<0.167	mg/kg dry wt	
	Phenanthrene	Blank	<0.167	mg/kg dry wt	
	Pyrene	Blank	<0.167	mg/kg dry wt	
	Benzo(k)fluoranthene	Blank	<0.167	mg/kg dry wt	
LFBLANK-92517	Naphthalene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.319	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.159	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.334	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.080	%	
		Lab Fort Blank Range	0.920	units	
		Lab Fort Bl. Av. Rec	79.619	%	
		LFB Duplicate RPD	1.155	%	0-30
	Acenaphthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.356	mg/kg dry wt	
		Lab Fort Blk. % Rec.	81.359	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.438	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.299	%	
		Lab Fort Blank Range	4.939	units	
		Lab Fort Bl. Av. Rec	83.829	%	
		LFB Duplicate RPD	5.892	%	0-30
	Acenaphthylene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.336	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.200	%	40-140



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-92517	Acenaphthylene	Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.420	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.199	%	
		Lab Fort Blank Range	4.999	units	
		Lab Fort Bl. Av. Rec	82.699	%	
		LFB Duplicate RPD	6.045	%	0-30
	Anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.431	mg/kg dry wt	
		Lab Fort Blk. % Rec.	85.879	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.538	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.299	%	
		Lab Fort Blank Range	6.419	units	
		Lab Fort Bl. Av. Rec	89.089	%	
		LFB Duplicate RPD	7.206	%	0-30
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.440	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.399	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.558	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	93.479	%	
		Lab Fort Blank Range	7.080	units	
		Lab Fort Bl. Av. Rec	89.939	%	
		LFB Duplicate RPD	7.871	%	0-30
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.392	mg/kg dry wt	
		Lab Fort Blk. % Rec.	83.539	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.512	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	90.760	%	
		Lab Fort Blank Range	7.220	units	
		Lab Fort Bl. Av. Rec	87.149	%	
		LFB Duplicate RPD	8.284	%	0-30
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.317	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.039	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.428	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.679	%	
		Lab Fort Blank Range	6.640	units	
		Lab Fort Bl. Av. Rec	82.359	%	
		LFB Duplicate RPD	8.062	%	0-30
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/6/2009

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits	
LFBLANK-92517						
	Benzo(g,h,i)perylene	Lab Fort Blk. Found	1.675	mg/kg dry wt		
		Lab Fort Blk. % Rec.	100.540	%	40-140	
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt		
		Dup Lab Fort Bl. Fnd	1.729	mg/kg dry wt		
		Dup Lab Fort Bl %Rec	103.780	%		
		Lab Fort Blank Range	3.240	units		
		Lab Fort Bl. Av. Rec	102.160	%		
		LFB Duplicate RPD	3.171	%	0-30	
		Chrysene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
			Lab Fort Blk. Found	1.399	mg/kg dry wt	
	Lab Fort Blk. % Rec.		83.959	%	40-140	
	Dup Lab Fort Bl Amt.		1.666	mg/kg dry wt		
	Dup Lab Fort Bl. Fnd		1.531	mg/kg dry wt		
	Dup Lab Fort Bl %Rec		91.900	%		
	Lab Fort Blank Range		7.940	units		
	Lab Fort Bl. Av. Rec		87.929	%		
	LFB Duplicate RPD		9.029	%	0-30	
	Dibenz(a,h)anthracene		Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.574	mg/kg dry wt		
		Lab Fort Blk. % Rec.	94.439	%	40-140	
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt		
		Dup Lab Fort Bl. Fnd	1.613	mg/kg dry wt		
		Dup Lab Fort Bl %Rec	96.820	%		
		Lab Fort Blank Range	2.380	units		
		Lab Fort Bl. Av. Rec	95.629	%		
		LFB Duplicate RPD	2.488	%	0-30	
		Fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
	Lab Fort Blk. Found		1.556	mg/kg dry wt		
	Lab Fort Blk. % Rec.		93.379	%	40-140	
	Dup Lab Fort Bl Amt.		1.666	mg/kg dry wt		
	Dup Lab Fort Bl. Fnd		1.591	mg/kg dry wt		
	Dup Lab Fort Bl %Rec		95.479	%		
	Lab Fort Blank Range		2.099	units		
	Lab Fort Bl. Av. Rec		94.429	%		
	LFB Duplicate RPD		2.223	%	0-30	
	Fluorene		Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.377	mg/kg dry wt		
		Lab Fort Blk. % Rec.	82.639	%	40-140	
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt		
		Dup Lab Fort Bl. Fnd	1.535	mg/kg dry wt		
		Dup Lab Fort Bl %Rec	92.140	%		
		Lab Fort Blank Range	9.500	units		
		Lab Fort Bl. Av. Rec	87.389	%		

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-92517	Fluorene	LFB Duplicate RPD	10.870	%	0-30
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.648	mg/kg dry wt	
		Lab Fort Blk. % Rec.	98.920	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.717	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	103.020	%	
		Lab Fort Blank Range	4.099	units	
		Lab Fort Bl. Av. Rec	100.970	%	
	2-Methylnaphthalene	LFB Duplicate RPD	4.060	%	0-30
		Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.192	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.560	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.261	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.659	%	
		Lab Fort Blank Range	4.099	units	
		Lab Fort Bl. Av. Rec	73.610	%	
	Phenanthrene	LFB Duplicate RPD	5.569	%	0-30
		Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.430	mg/kg dry wt	
		Lab Fort Blk. % Rec.	85.799	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.540	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.440	%	
		Lab Fort Blank Range	6.640	units	
		Lab Fort Bl. Av. Rec	89.119	%	
	Pyrene	LFB Duplicate RPD	7.450	%	0-30
		Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.693	mg/kg dry wt	
		Lab Fort Blk. % Rec.	101.600	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.922	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	115.320	%	
		Lab Fort Blank Range	13.720	units	
		Lab Fort Bl. Av. Rec	108.460	%	
	Benzo(k)fluoranthene	LFB Duplicate RPD	12.649	%	0-30
		Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.412	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.719	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.548	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.920	%	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

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QC Batch Number: GCMS/SEMI-11999

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-92517	Benzo(k)fluoranthene	Lab Fort Blank Range	8.200	units	
		Lab Fort Bl. Av. Rec	88.819	%	
		LFB Duplicate RPD	9.232	%	0-30



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QC SUMMARY REPORT

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QC Batch Number: ICP-21275

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B05724	Cadmium	Sample Amount	<0.30	mg/kg dry wt	
		Duplicate Value	<0.30	mg/kg dry wt	
		Sample Amount	<0.30	mg/kg dry wt	
		Matrix Spk Amt Added	29.00	mg/kg dry wt	
		MS Amt Measured	27.99	mg/kg dry wt	
		Matrix Spike % Rec.	96.53	%	75-125
	Lead	Sample Amount	138.73	mg/kg dry wt	
		Duplicate Value	122.84	mg/kg dry wt	
		Duplicate RPD	12.14	%	0-35
		Sample Amount	138.73	mg/kg dry wt	
		Matrix Spk Amt Added	29.00	mg/kg dry wt	
		MS Amt Measured	130.70	mg/kg dry wt	
		Matrix Spike % Rec.	-27.68	%	75-125
BLANK-130209	Cadmium	Blank	<0.25	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
LFBLANK-92366	Cadmium	Lab Fort Blank Amt.	258.00	mg/kg dry wt	
		Lab Fort Blk. Found	240.91	mg/kg dry wt	
		Lab Fort Blk. % Rec.	93.37	%	83-117
		Dup Lab Fort Bl Amt.	258.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	244.42	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	94.73	%	83-117
		Lab Fort Blank Range	1.36	units	
		Lab Fort Bl. Av. Rec	94.05	%	
		LFB Duplicate RPD	1.44	%	0-30
	Lead	Lab Fort Blank Amt.	136.00	mg/kg dry wt	
		Lab Fort Blk. Found	142.35	mg/kg dry wt	
		Lab Fort Blk. % Rec.	104.66	%	82-118
		Dup Lab Fort Bl Amt.	136.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	143.66	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	105.63	%	82-118
		Lab Fort Blank Range	0.96	units	
Lab Fort Bl. Av. Rec	105.15	%			
LFB Duplicate RPD	0.91	%	0-30		



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
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NOTES:

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Benzo(a)anthracene

MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE OF CONTROL LIMITS, BUT MATRIX SPIKE RECOVERY IS WITHIN LIMITS. OUTLIER SHOULD BE VIEWED AS A ONE TIME ANOMALY.

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Benzo(g,h,i)perylene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Chrysene

MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE OF CONTROL LIMITS, BUT MATRIX SPIKE RECOVERY IS WITHIN LIMITS. OUTLIER SHOULD BE VIEWED AS A ONE TIME ANOMALY.

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Fluoranthene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Indeno(1,2,3-cd)pyrene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Phenanthrene

MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE OF CONTROL LIMITS, BUT MATRIX SPIKE RECOVERY IS WITHIN LIMITS. OUTLIER SHOULD BE VIEWED AS A ONE TIME ANOMALY.

QC Batch No. : GCMS/SEMI-11999
Sample ID : 09B05724
Analysis : Pyrene

MATRIX SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANALYSIS IS IN CONTROL BASED ON LABORATORY FORTIFIED BLANK RECOVERY. POSSIBILITY OF SAMPLE MATRIX EFFECTS THAT LEAD TO LOW BIAS FOR REPORTED RESULT CANNOT BE ELIMINATED.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount Amount of analyte found in a sample.
Blank Method Blank that has been taken though all the steps of the analysis.
LFBLANK Laboratory Fortified Blank (a control sample)
STDADD Standard Added (a laboratory control sample)
Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.
Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.
Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: CON-TEST Analytical Laboratory	Project #: <i>LIM T-23529</i>
Project Location: <i>CITY OF NEW BEDFORD</i>	MADEP RTN ¹ :

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

09B05721-09B05726

Sample Matrices: Groundwater Soil/Sediment Drinking Water Other: _____

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B <input checked="" type="checkbox"/>	7470A/1A ()
	8270C <input checked="" type="checkbox"/>	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

- 1 List Release Tracking Number (RTN), if known
- 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
- 3 S – SW-846 Methods 7000 Series List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	<u>VPH and EPH Methods only:</u> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: <u><i>Edward Denson</i></u>	Position: Technical Director
Printed Name: Edward Denson	Date: <u><i>3/6/09</i></u>



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC

Address: 650 Suffolk St,
 Lowell MA 01854

Attention: Dave Sullivan

Project Location: City of New Bedford (Walsh)

Sampled By: Bob Polin, Charlie Foster

Proposal Provided? (For Billing purposes)

Yes No

State Form Required?

Yes No

Telephone: (978) 970 5600

Project # 115058

Client PO #

DATA DELIVERY (check one):

FAX EMAIL WEBSITE CLIENT

Fax #:

Email: dsullivan@TRCSolutions.com

Format: EXCEL PDF GIS KEY

OTHER

Limit # 23529

Matrix Code	Sample	Analysis Requested	# of containers
GW	WFFS-6 (0-1)	PAH (BAP)	1
DW	WFFS-6 (1-3)	PAH (BAP)	1
A	WFFS-6 (1-3)	PAH (BAP)	1
S	WFFS-6 (1-3)	PAH (BAP)	1

ANALYSIS REQUESTED

Cont. Code:

A = amber glass

G = glass

P = plastic

ST = sterile

V = vial

S = summa can

T = tedlar bag

O = other

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp-site	Grab	Matrix Code	Conc. Code	Client
WFFS-6 (0-1)		09B	2-25-09 8:35			X		S	U	
WFFS-6 (1-3)			2-25-09 8:40			X		S	U	
WFFS-C (0-1)		022-05721	2-25-09 8:50			X		S	U	
WFFS-C (1-3)		05722	2-25-09 8:55			X		S	U	
WFFS-A (0-1)		05723	2-25-09 10:06			X		S	U	
WFFS-A (1-3)		05724	2-25-09 10:05			X		S	U	
WFFS-A (E)(0-1)			2-25-09 9:15			X		S	U	
WFFS-E (1-3)			2-25-09 9:20			X		S	U	

Comments: *MS/DP 2 jars on hold*

Laboratory Comments: Please hold sample overnight for possible TCLP Analysis. Do not run test samples per client.

Relinquished by (signature): *[Signature]* Date/Time: 2/25/09 16:15

Received by (signature): *[Signature]* Date/Time: 2-25-09 16:15

Relinquished by (signature): *[Signature]* Date/Time: 2-25-09 19:40

Received by (signature): *[Signature]* Date/Time: 2/25/09 19:40

Turnaround ** 7-Day 10-Day Rush * *24-Hr *48-Hr *72-Hr *4-Day

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



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 Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

Limit # 23529

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Page 2 of 3

Company Name: TRC
 Address: 650 Suffolk St
Lowell, MA 01854

Attention: Dave Sullivan

Project Location: City of New Bedford (Walsh)
 Sampled By: Bob Poolin + Charlie Sester

Proposal Provided? (For Billing purposes)
 Yes No
 State Form Required?
 Yes No

Telephone: 978 970 5600
 Project # 115058
 Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____
 Email: DSullivan@TRCSolutions.com
 Format: EXCEL PDF GIS KEY
 OTHER _____

ANALYSIS REQUESTED	# of containers
As	1
Pb	1
Cd	1
PAT (BAP)	1
**Preservation	
-Cont. Code	

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Code	Conc. Code	Client Comments:
	WFFS F (6-1)	09B	2-25-09	930	930	X		S	U	
	WFFS F (1-3)		2-25-09	935	935	X		S	U	
	WFFS B (0-1)	05725	2-25-09	945	950	X		S	U	
	WFFS B (1-3)	05726	2-25-09	950	950	X		S	U	
	Post-9 H (0-1)		2-25-09	1315	1315	X		S	U	
	Post-9 H (1-3)		2-25-09	1320	1320	X		S	U	
	Post-9 D (0-1)	05727	2-25-09	1330	1330	X		S	U	
	Post-9 D (1-3)	05728	2-25-09	1335	1335	X		S	U	

Laboratory Comments: Please Hold Sample Requests for Possible TLP Analysis.

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (Signature): [Signature] Date/Time: 2/25/09 16:15

Received by (Signature): [Signature] Date/Time: 2-25-09 16:15

Relinquished by (Signature): [Signature] Date/Time: 2-25-09 19:40

Received by (Signature): [Signature] Date/Time: 2/25/09 19:10

Turnaround **
 7-Day
 10-Day
 Other Day RUSH*

Detection Limit Requirements
 Regulations? MCP S-1, S-2

*Matrix Code:
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

**Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

Special Requirements or DLs: See page

*Require lab approval

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AHHA, NELAC & WBE/DBE Certified



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Page 3 of 3

Company Name: TRC
 Address: 650 South Park St
Lowell MA 01854

Telephone: (978) 970 5600
 Project # 115058
 Client PO # _____

of containers: _____
 **Preservation: _____
 -Cont. Code: _____

Attention: Dave Sullivan

Project Location: City of New Bedford
 Sampled By: Bob Poulin + Charlie Spive

-Cont. Code:
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V=vial
 S=summary can
 T=teflon bag
 O=Other

Proposal Provided? (For Billing purposes)
 Yes No
 State Form Required?
 Yes No

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Email: DSullivan@TRCSolutions.com
 Format: EXCEL PDF GIS KEY

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Conc. Code Code	ANALYSIS REQUESTED	Client Comments:
Post 9 B (0-1)	05729	098	2-25-09	1400	X		S V	Arsenic (As)	
Post 9 B (1-3)	05730		2-25-09	1405	X		S V	Lead (Pb)	
Post 9 D6 (1-3)	05731		2-25-09	1300	X		S V	Cadmium (Cd)	
Post 9 S (0-1)			2-25-09	1415	X		S V		
Post 9 S (1-3)			2-25-09	1420	X		S V		

Laboratory Comments: Please Hold Sample Always For Possible TCLP Analysis

Refiniquished by: (signature) [Signature] Date/Time: 2/25/09 1615

Received by: (signature) [Signature] Date/Time: 2-25-09 1615

Relinquished by: (signature) [Signature] Date/Time: 2-25-09 1940

Received by: (signature) [Signature] Date/Time: 2/25/09 19:40

Turnaround Time Starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

Turnaround **
 7-Day
 10-Day
 Other Day RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-Day
 * Require lab approval

Detection Limit Requirements
 Regulations? MCP S-1, S-2
 Data Enhancement Project/RCP? Y N
 Special Requirements or DL's: See notes

*Matrix Code:
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

**Preservation Codes:
 I = lead
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: CON-TEST Analytical Laboratory	Project #: <i>LIM T-23529</i>
Project Location: <i>CITY OF NEW BEDFORD</i>	MADEP RTN ¹ :

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
09B05721-09B05726

Sample Matrices: Groundwater Soil/Sediment Drinking Water Other: _____

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B (X)	7470A/1A ()
	8270C (X)	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()

1 List Release Tracking Number (RTN), if known
 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
 3 S – SW-846 Methods 7000 Series List individual method and analyte.

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	<u>VPH and EPH Methods only:</u> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: <u><i>Edward Denson</i></u>	Position: Technical Director
Printed Name: Edward Denson	Date: <u><i>3/6/09</i></u>



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC

Address: 650 Suffolk St,
 Lowell MA 01854

Telephone: (978) 970 5660

Project # 115058

Client PO #

Attention: Dave Sullivan

Project Location: City of New Bedford (wash)

Sampled By: Bob Perin, Chadler Sester

Proposal Provided? (For Billing purposes)

State Form Required?
 yes no

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Email: dsullivan@TRCSolutions.com
 Format: EXCEL PDF GIS KEY

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	*Matrix Conc.		ANALYSIS REQUESTED	# of containers
			Start Date/Time	Stop Date/Time			Code	Code		
WFFS-6 (0-1)		09B	2-25-09	835	X	S	U	X		
WFFS-6 (1-3)			2-25-09	840	X	S	U	X		
WFFS-C (0-1)		05721	2-25-09	850	X	S	U	X		
WFFS-C (1-3)		05722	2-25-09	855	X	S	U	X		
WFFS-A (0-1)		05723	2-25-09	1006	X	S	U	X		
WFFS-A (1-3)		05724	2-25-09	1005	X	S	U	X		
WFFS-AE(0-1)			2-25-09	915	X	S	U	X		
WFFS-E (1-3)			2-25-09	920	X	S	U	X		

Laboratory Comments: Please hold sample at request for possible TCLP Analysis.
 Do not run "Post" samples per client.

Relinquished by (signature): [Signature] Date/Time: 2/25/09 1615

Received by (signature): [Signature] Date/Time: 2-25-09 1615

Relinquished by (signature): [Signature] Date/Time: 2-25-09 1940

Received by (signature): [Signature] Date/Time: 2/25/09 19:40

Turnaround **
 7-Day 10-Day Other Day
 RUSH *
 *24-Hr *48-Hr *72-Hr *4-Day
 * Require lab approval

Detection Limit Requirements
 Regulations? MCP 8.1.5-2
 Data Enhancement Project/RCP? Y N
 Special Requirements or DL's: See quote.

*Matrix Code:
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

**Preservation Codes:
 I = Iodine
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

Client Comments: [Handwritten notes]

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC
 Address: 650 Suffolk St
Lowell, MA 01854
 Attention: Dave Sullivan

Telephone: 978 970 5600
 Project #: 115058
 Client PO # _____

Project Location: City of New Bedford (Walsh)
 Sampled By: Bob Paulin + Charlene Soster

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: DSullivan@TRCSolutions.com
 Format: EXCEL PDF GIS KEY
 OTHER _____

Proposal Provided? (For Billing purposes)
 Yes No
 State Form Required?
 Yes No

Field ID	Sample Description	Lab #	Date Sampled	Start Date/Time	Stop Date/Time	Comp-oste	Grab	*Matrix Code	Conc. Code	ANALYSIS REQUESTED	# of containers
	WFFS F (6-1)	09B	2-25-09	930	930	X	X	S	U	Arsenic (As)	1
	WFFS F (1-3)		2-25-09	935	935	X	X	S	U	Lead (Pb)	1
	WFFS B (0-1)	05725	2-25-09	945	950	X	X	S	U	Cadmium (Cd)	1
	WFFS B (1-3)	05726	2-25-09	950	950	X	X	S	U	PAH (BAP)	1
	Post 9 H (0-1)		2-25-09	1315	1315	X	X	S	U		
	Post 9 H (1-3)		2-25-09	1320	1320	X	X	S	U		
	Post 9 D (0-1)	05727	2-25-09	1330	1330	X	X	S	U		
	Post 9 D (1-3)	05728	2-25-09	1335	1335	X	X	S	U		

Laboratory Comments: Please Hold Sample Requests for Possible TCEP Analysis.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Retrieved by (signature) [Signature] Date/Time: 2/25/09 1615

Received by (signature) [Signature] Date/Time: 2-25-09 1615

Relinquished by (signature) [Signature] Date/Time: 2-25-09 1940

Received by (signature) [Signature] Date/Time: 2/25/09 19:30

Turnaround **
 7-Day
 10-Day
 Other Day
 RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-Day
 *Require lab approval

Detection Limit Requirements
 Regulations? MCP S-1, S-2
 Data Enhancement Project/RCP? Y N
 Special Requirements or DLs: See gate

*Matrix Code:
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

**Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 O = Other

X = Na hydroxide
 T = Na thiosulfate

Client Comments: U

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. AIHA, NELAP & WBE/DBE Certified



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CHAIN OF CUSTODY RECORD

39 SPRUCE ST. 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: TRC
 Address: 650 Suffolk St Lowell MA 01854
 Attention: Dave Sullivan

Project Location: City of New Bedford
 Sampled By: Bob Paulin + Christie Eric

Proposal Provided? (For Billing purposes)
 Yes No
 State Form Required?
 Yes No

Telephone: (978) 970 5600
 Project # 115058
 Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax # : _____
 Email: DSullivan@TRCSolutions.com
 Format: EXCEL PDF GIS KEY
 OTHER _____

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	*Matrix Conc.		Analysis Requested	# of containers
			Start Date/Time	Stop Date/Time			Code	Code		
	Post 9 B (0-1)	05729	2-25-09	1900	X	X	S	V	Asenic (As)	1
	Post 9 B (1-3)	05730	2-25-09	1905	X	X	S	V	Lead (Pb)	1
	Post 9 D6 (1-3)	05731	2-25-09	1300	X	X	S	V	Cadmium (Cd)	1
	Post 9 F (0-1)		2-25-09	1915	X	X	S	V		1
	Post 9 F (1-3)		2-25-09	1920	X	X	S	V		1

Laboratory Comments: Please Hold Sample Await for Possible TCLP Analysis

Received by: (signature) [Signature] Date/Time: 2/25/09 16:15

Received by: (signature) [Signature] Date/Time: 2-25-09 16:15

Relinquished by: (signature) [Signature] Date/Time: 2-25-09 19:40

Received by: (signature) [Signature] Date/Time: 2/25/09 19:40

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

Sample Receipt Checklist

CLIENT NAME: TRC MA RECEIVED BY: Ka DATE: 2/25/09

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples? Yes No
- If not, explain:
- 3) Are all the samples in good condition? Yes No
- If not, explain:

- 4) How were the samples received:
- On Ice Direct from Sampling Ambient In Cooler(s)
- Were the samples received in Temperature Compliance of (2-6°C)? Yes No

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
- Who was notified _____ Date _____ Time _____
- 6) Are there any samples "On Hold"? Yes No
- 7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
- Who was notified _____ Date _____ Time _____

Stored where: 18A

- 8) Location where samples are stored: walkin cart
- Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
- Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	<u>21</u>
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Do all samples have the proper pH: Yes No N/A