



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

REPORT DATE 5/29/2009

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

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25213

JOB NUMBER: 115058

PROJECT LOCATION: CITY OF NEW BEDFORD (WF)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
WV-001	09B14289	SOIL	Not Specified	as (mg/kg)dw icp	
WV-001	09B14289	SOIL	Not Specified	solids (percent)	
WV-002	09B14290	SOIL	Not Specified	as (mg/kg)dw icp	
WV-002	09B14290	SOIL	Not Specified	solids (percent)	
WV-003	09B14291	SOIL	Not Specified	as (mg/kg)dw icp	
WV-003	09B14291	SOIL	Not Specified	solids (percent)	
WV-004	09B14292	SOIL	Not Specified	as (mg/kg)dw icp	
WV-004	09B14292	SOIL	Not Specified	solids (percent)	
WV-005	09B14293	SOIL	Not Specified	as (mg/kg)dw icp	
WV-005	09B14293	SOIL	Not Specified	solids (percent)	
WV-006	09B14294	SOIL	Not Specified	as (mg/kg)dw icp	
WV-006	09B14294	SOIL	Not Specified	solids (percent)	
WV-007	09B14295	SOIL	Not Specified	as (mg/kg)dw icp	
WV-007	09B14295	SOIL	Not Specified	solids (percent)	
WV-008	09B14296	SOIL	Not Specified	as (mg/kg)dw icp	
WV-008	09B14296	SOIL	Not Specified	solids (percent)	
WV-009	09B14297	SOIL	Not Specified	as (mg/kg)dw icp	
WV-009	09B14297	SOIL	Not Specified	solids (percent)	
WV-010	09B14298	SOIL	Not Specified	as (mg/kg)dw icp	
WV-010	09B14298	SOIL	Not Specified	solids (percent)	
WV-011	09B14299	SOIL	Not Specified	as (mg/kg)dw icp	
WV-011	09B14299	SOIL	Not Specified	solids (percent)	
WV-012	09B14300	SOIL	Not Specified	as (mg/kg)dw icp	
WV-012	09B14300	SOIL	Not Specified	solids (percent)	
WV-013	09B14301	SOIL	Not Specified	as (mg/kg)dw icp	
WV-013	09B14301	SOIL	Not Specified	solids (percent)	
WV-015	09B14302	SOIL	Not Specified	as (mg/kg)dw icp	
WV-015	09B14302	SOIL	Not Specified	solids (percent)	
WV-018 QC	09B14304	SOIL	Not Specified	as (mg/kg)dw icp	
WV-018 QC	09B14304	SOIL	Not Specified	solids (percent)	
WV-021	09B14305	SOIL	Not Specified	as (mg/kg)dw icp	
WV-021	09B14305	SOIL	Not Specified	solids (percent)	
WV-024	09B14306	SOIL	Not Specified	as (mg/kg)dw icp	
WV-024	09B14306	SOIL	Not Specified	solids (percent)	
WV-115	09B14303	SOIL	Not Specified	as (mg/kg)dw icp	
WV-115	09B14303	SOIL	Not Specified	solids (percent)	



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

REPORT DATE 5/29/2009

TRC SOLUTIONS - LOWELL

650 SUFFOLK STREET

LOWELL, MA 01852

ATTN: DAVID SULLIVAN

CONTRACT NUMBER:

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMT-25213

JOB NUMBER: 115058

Comments :

LIMS BATCH NO. : LIMT-25213

#### 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

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

#### DETAILED CASE NARRATIVE

##### METHOD SW846-6010 - ADDITIONAL DETAILS

A duplicate and matrix spike were performed on sample 09B14304.  
Only Arsenic results 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 Denson* 5/29/09

SIGNATURE

DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor

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

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

5/29/2009  
Page 1 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-001

Sample ID : 09B14289

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	23.0	05/29/09	OP	2.97		

Field Sample #: WFV-002

Sample ID : 09B14290

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	63.4	05/29/09	OP	2.96		

Field Sample #: WFV-003

Sample ID : 09B14291

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	26.0	05/29/09	OP	2.92		

Field Sample #: WFV-004

Sample ID : 09B14292

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	47.1	05/29/09	OP	3.00		

Field Sample #: WFV-005

Sample ID : 09B14293

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	76.1	05/29/09	OP	2.91		

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.

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

5/29/2009  
Page 2 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-006

Sample ID : 09B14294

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	34.6	05/29/09	OP	3.00		

Field Sample #: WFV-007

Sample ID : 09B14295

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	8.67	05/29/09	OP	3.00		

Field Sample #: WFV-008

Sample ID : 09B14296

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	59.9	05/29/09	OP	2.97		

Field Sample #: WFV-009

Sample ID : 09B14297

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	24.5	05/29/09	OP	2.94		

Field Sample #: WFV-010

Sample ID : 09B14298

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	36.5	05/29/09	OP	2.97		

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.

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

5/29/2009  
Page 3 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-011

Sample ID : 09B14299

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	123	05/29/09	OP	2.92		

Field Sample #: WFV-012

Sample ID : 09B14300

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	33.2	05/29/09	OP	2.90		

Field Sample #: WFV-013

Sample ID : 09B14301

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	15.1	05/29/09	OP	2.96		

Field Sample #: WFV-015

Sample ID : 09B14302

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.58	05/29/09	OP	3.07		

Field Sample #: WFV-018 QC

Sample ID : 09B14304

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.63	05/29/09	OP	3.00		

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.

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

5/29/2009  
Page 4 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-021

Sample ID : 09B14305

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.13	05/29/09	OP	2.92		

Field Sample #: WFV-024

Sample ID : 09B14306

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.71	05/29/09	OP	3.05		

Field Sample #: WFV-115

Sample ID : 09B14303

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.55	05/29/09	OP	3.05		

Analytical Method:

SW846 3050/6010

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

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.

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

5/29/2009  
Page 5 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

**Field Sample # : WFV-001**

**Sample ID : 09B14289**

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.4	05/29/09	NCH			

**Field Sample # : WFV-002**

**Sample ID : 09B14290**

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.7	05/29/09	NCH			

**Field Sample # : WFV-003**

**Sample ID : 09B14291**

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.7	05/29/09	NCH			

**Field Sample # : WFV-004**

**Sample ID : 09B14292**

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	83.4	05/29/09	NCH			

**Field Sample # : WFV-005**

**Sample ID : 09B14293**

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.2	05/29/09	NCH			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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

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

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

5/29/2009  
Page 6 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-006

Sample ID : 09B14294

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	83.5	05/29/09	NCH			

Field Sample #: WFV-007

Sample ID : 09B14295

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	83.6	05/29/09	NCH			

Field Sample #: WFV-008

Sample ID : 09B14296

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.2	05/29/09	NCH			

Field Sample #: WFV-009

Sample ID : 09B14297

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.3	05/29/09	NCH			

Field Sample #: WFV-010

Sample ID : 09B14298

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.2	05/29/09	NCH			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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

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



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

5/29/2009  
Page 7 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-011

Sample ID : 09B14299

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.7	05/29/09	NCH			

Field Sample #: WFV-012

Sample ID : 09B14300

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.5	05/29/09	NCH			

Field Sample #: WFV-013

Sample ID : 09B14301

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	84.7	05/29/09	NCH			

Field Sample #: WFV-015

Sample ID : 09B14302

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	81.6	05/29/09	NCH			

Field Sample #: WFV-018 QC

Sample ID : 09B14304

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	83.6	05/29/09	NCH			

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.

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

5/29/2009  
Page 8 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

LIMS-BAT #: LIMIT-25213

Date Received: 5/27/2009

Job Number: 115058

Field Sample #: WFV-021

Sample ID : 09B14305

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.8	05/29/09	NCH			

Field Sample #: WFV-024

Sample ID : 09B14306

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	82.2	05/29/09	NCH			

Field Sample #: WFV-115

Sample ID : 09B14303

‡Sampled : 5/26/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	82.2	05/29/09	NCH			

Analytical Method:

SM 2540G

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

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.

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

5/29/2009  
Page 9 of 9

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)  
Date Received: 5/27/2009

LIMS-BAT #: LIMIT-25213  
Job Number: 115058

\*\* END OF REPORT \*\*

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.



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

### 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: 5/29/2009

Lims Bat # : LIMIT-25213

Page 1 of 2

QC Batch Number: ICP-21750

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B14304	Arsenic	Sample Amount	6.62	mg/kg dry wt	
		Duplicate Value	6.13	mg/kg dry wt	
		Duplicate RPD	7.69	%	0-35
		Sample Amount	6.62	mg/kg dry wt	
		Matrix Spk Amt Added	29.90	mg/kg dry wt	
		MS Amt Measured	36.63	mg/kg dry wt	
		Matrix Spike % Rec.	100.33	%	75-125
BLANK-132830	Arsenic	Blank	<2.50	mg/kg dry wt	
LFBLANK-95151					
	Arsenic	Lab Fort Blank Amt.	123.00	mg/kg dry wt	
		Lab Fort Blk. Found	116.90	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.04	%	83-117
		Dup Lab Fort Bl Amt.	123.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	125.26	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	101.83	%	83-117
		Lab Fort Blank Range	6.79	units	
		Lab Fort Bl. Av. Rec	98.43	%	
		LFB Duplicate RPD	6.90	%	0-30



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

## QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 5/29/2009

Lims Bat #: LIMIT-25213

Page 2 of 2

## 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 through 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 #: L1MT-25213

Project Location: CITY OF NEW BEDFORD (WF)

MADEP RTN<sup>1</sup>:

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

09B14289-09B14306

Sample Matrices: ☐ Groundwater ☒ Soil/Sediment ☐ Drinking Water ☐ Other:

MCP SW-846  
Methods Used

8260B ( )

8151A ( )

8330 ( )

6010B ☒

7470A/1A ( )

8270C ( )

8081A ( )

VPH ( )

6020 ( )

9014M<sup>2</sup> ( )

As specified in MADEP  
Compendium of  
Analytical Methods.

8082 ( )

8021B ( )

EPH ( )

7000 S<sup>3</sup> ( )

7196A ( )

(check all that apply)

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?

☒ Yes ☐ No<sup>1</sup>

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?

☒ Yes ☐ No<sup>1</sup>

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"?

☒ Yes ☐ No<sup>1</sup>

D

VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)

☐ Yes ☐ No<sup>1</sup>

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?

☒ Yes ☐ No<sup>1</sup>

F

Were results for all analyte-list compounds/elements for the specified method(s) reported?

☐ Yes ☒ No<sup>1</sup>
<sup>1</sup> 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:

Edward Denson

Position: Technical Director

Printed Name: Edward Denson

Date:

5/29/09



Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

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

Page 1 of 4

Company Name:

TRC

Address:

650 Suffolk St.  
Lowell, MA 01854

Attention:

David Sullivan

Project Location:

City of New Bedford (WF)

Sampled By:

K. Kitchen, A. WDEIS

Proposal Provided? (For Billing purposes)

☐ yes

proposal date

State Form Required?

☒ yes

☐ no

Telephone: (978) 970-5600  
Project # 115058

Client PO #

DATA DELIVERY (check one):

OFAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: dsullivan@trcsolutions.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time	Stop Date/Time	Comp-oste	Grab	Matrix Code	Conc. Code
5/24/09	10:15		X	S	U
	10:18		X	S	U
	10:25		X	S	U
	10:30		X	S	U
	10:35		X	S	U
	10:45		X	S	U
	10:50		X	S	U
	10:55		X	S	U

As

ANALYSIS REQUESTED

Cont. Code:

A=amber glass

G=glass

P=plastic

SI=sterile

V=vial

S=summary can

T=tardar bag

O=Other

Client Comments:

72

Laboratory Comments:

Hold all for TELP 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

Relinquished by: (signature)

Date/Time:

5/24/09

Received by: (signature)

Date/Time:

5/24/09

Relinquished by: (signature)

Date/Time:

5-27-09

Received by: (signature)

Date/Time:

5/27/09

Turnaround \*\*

☐ 7-Day

☐ 10-Day

☐ Other

RUSH \*

☐ 24-Hr ☒ 48-Hr

☒ 72-Hr ☐ 4-Day

Detection Limit Requirements

Regulations? MCL 5-173-2

Data Enhancement Project/RCP? ☒ ☐ N

Special Requirements or DL's:

\*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

\*\* 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



Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

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

Page 2 of 4

Company Name:

TRC

Address:

650 Suffolk St.

Telephone: (978) 970-5600

Attention:

David Sullivan

Project # 115058

Client PO #

Project Location:

City of New Bedford (WFA)

Fax #:

Sampled By:

K. Kitchen + A. Weiss

Email: dsullivan@resolutioninc.com  
Format: EXCEL PDF AGIS KEY

Proposal Provided? (For Billing purposes)

☐ yes

proposal date

State Form Required?

☒ yes ☐ no

Date Sampled

Start Date/Time

Stop Date/Time

Comp-  
osite

Grab

Matrix  
Code

Conc.  
Code

AS

ANALYSIS REQUESTED

Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=red bag  
O=Other

Field ID

Sample Description

Lab # 098

5/26/09

1100

X

S

u

X

X

X

X

X

X

WFW-9

14297

1105

X

S

u

X

X

X

X

X

X

X

X

WFW-10

14298

1110

X

S

u

X

X

X

X

X

X

X

X

WFW-11

14300

1115

X

S

u

X

X

X

X

X

X

X

X

WFW-12

14301

1120

X

S

u

X

X

X

X

X

X

X

X

WFW-13

14302

1140

X

S

u

X

X

X

X

X

X

X

X

WFW-14

14303

1150

X

S

u

X

X

X

X

X

X

X

X

WFW-15

14304

1250

X

S

u

X

X

X

X

X

X

X

X

WFW-115

14305

1250

X

S

u

X

X

X

X

X

X

X

X

Laboratory Comments:

Hold all for Potential TCC 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

Relinquished by (signature)

5/26/09 1530

Date/Time:

5/26/09 1530

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

5/26/09 1730

Received by (signature)

5/26/09 1530

Date/Time:

5/26/09 1530

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

5/26/09 1730

Relinquished by (signature)

5/26/09 1530

Date/Time:

5/26/09 1530

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

5/26/09 1730

Received by (signature)

5/26/09 1530

Date/Time:

5/26/09 1530

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

5/26/09 1730

Received by (signature)

5/26/09 1530

Date/Time:

5/26/09 1530

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

Date/Time:

5/26/09 1730

5/26/09 1730

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

\*\* 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





Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

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

Page 3 of 4

Company Name:

Address: 1680 Suffolk St.

City: Lowell, MA 01854

Attention: David Sullivan

Project Location: City of New Bedford (WVF)

Sampled By: K. Kitchin & A. Weiss

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 ☐ XLS KEY

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp-oste	Grab	*Matrix   Conc. Code   Code	ANALYSIS REQUESTED	# of containers
WFEV-16		143014	5/26/09 1155		X	S	U	Hold	
WFEV-18		143014	5/26/09 1200		X	S	U	MS/DUP volume	
WFEV-17		143014	5/26/09 1205		X	S	U	Hold	
WFEV-19		143014	5/26/09 1210		X	S	U	Hold	
WFEV-20		143014	5/26/09 1220		X	S	U	Hold	
WFEV-21		143014	5/26/09 1225		X	S	U	Hold	
WFEV-22		143014	5/26/09 1230		X	S	U	Hold	
WFEV-23		143014	5/26/09 1235		X	S	U	Hold	

Laboratory Comments: Hold all for Potatoid TCCP Analysis

Relinquished by: (signature) Date/Time: 5/26/09 1230

Received by: (signature) Date/Time: 5/26/09 1230

Relinquished by: (signature) Date/Time: 5/26/09 1230

Received by: (signature) Date/Time: 5/26/09 1230

Turnaround \*\*  
☐ 7-Day  
☐ 10-Day  
☐ Other  
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? ☒ N  
Special Requirements or DL's:

\*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

Client Comments:



# **Sample Receipt Checklist**

 CLIENT NAME: TPC Low RECEIVED BY: OE DATE: 5/27/09

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 4.0 Temperature °C by Temp gun \_\_\_\_\_

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 ☒

 Stored where: 

7) Are there any RUSH or SHORT HOLDING TIME samples?

 Yes ☐ No ☒

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

8) Location where samples are stored:

19

 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	27
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 \_\_\_\_\_ Time and Date Frozen: \_\_\_\_\_

# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

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