

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

PROJECT LOCATION: CITY OF NEW BEDFORD (WF)

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



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

AlHA 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 \$ 29/09

Tod Kopyscinski

Michael Erickson

Air Laboratory Manager

Assistant Laboratory Director

Edward Denson

Daren Damboragian

Technical Director

Organics Department Supervisor

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



DAVID SULLIVAN

TRC SOLUTIONS - LOWELL 5/29/2009
650 SUFFOLK STREET Page 1 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-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 Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

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

Field Sample #: WFV-003

Sample ID: 09B14291 ‡Sampled: 5/26/2009

Not Specified

Sample Matrix: SOIL

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

Field Sample #: WFV-004

Sample ID: 09B14292 ‡Sampled: 5/26/2009

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

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 RLSPEC Limit P/F Analyst Analyzed Lo Ηi Arsenic 76.1 05/29/09 OP 2.91 mg/kg dry wt

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

detection of the Reporting Reporting Limit

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 5/29/2009
650 SUFFOLK STREET Page 2 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-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 Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

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 RLSPEC Limit P/F Analyst Analyzed Lo Hi 05/29/09 2.97 Arsenic 59.9 OP mg/kg dry wt

Field Sample #: WFV-009

Sample ID: 09B14297 ‡Sampled: 5/26/2009

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst Analyst RL Analyst RL SPEC Limit P/ F Lo Hi
 P/ F Lo Hi

 Arsenic
 mg/kg dry wt 24.5
 05/29/09 OP 2.94
 2.94

Field Sample #: WFV-010

Sample ID: 09B14298 ‡Sampled: 5/26/2009

Not Specified

Sample Matrix: SOIL

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

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

ND = Not Detected at or above the Reporting Limit 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 5/29/2009
650 SUFFOLK STREET Page 3 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

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 RLSPEC Limit P/F Analyst Analyzed Lo Hi 05/29/09 2.96 Arsenic mg/kg dry wt 15.1 OP

Field Sample #: WFV-015

Sample ID: 09B14302 ‡Sampled: 5/26/2009

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL SPEC Limit P/ F Lo Hi

 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 SPEC Limit P/F Analyst RLAnalyzed Lo Ηi Arsenic 6.63 05/29/09 OP 3.00 mg/kg dry wt

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

ND = Not Detected at or above the Reporting Limit determine PASS (P) or FAIL (F) condition of results.

NM = Not Measured

* = 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 5/29/2009
650 SUFFOLK STREET Page 4 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Arsenic mg/kg dry wt 5.71 05/29/09 OP 3.05

Field Sample #: WFV-115

Not Specified

Sample Matrix: SOIL

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

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

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 5/29/2009 650 SUFFOLK STREET Page 5 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-25213

Date Received: 5/27/2009 Job Number: 115058

Field Sample #: WFV-001

09B14289 **\$Sampled: 5/26/2009** Sample ID:

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Lo Ηi

% Solids, total 84.4 05/29/09 NCH

Field Sample #: WFV-002

Sample ID: 09B14290 ‡Sampled: 5/26/2009

Not Specified

SOIL Sample Matrix:

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi

% 05/29/09 NCH Solids, total 84.7

Field Sample #: WFV-003

Sample ID: 09B14291 **\$Sampled: 5/26/2009**

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi % 85.7 05/29/09 NCH

Solids, total

Field Sample #: WFV-004

Sample ID: **\$Sampled:** 5/26/2009 09B14292

Not Specified

Sample Matrix: SOIL

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

Field Sample #: WFV-005

\$Sampled: 5/26/2009 Sample ID: 09B14293

Not Specified

SOIL Sample Matrix:

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

RL = Reporting Limit

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

ND = Not Detected at or above the Reporting Limit

^{* =} 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 5/29/2009 650 SUFFOLK STREET Page 6 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-25213

Date Received: 5/27/2009 Job Number: 115058

Field Sample #: WFV-006

09B14294 **\$Sampled: 5/26/2009** Sample ID:

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL Analyzed Lo Ηi

% Solids, total 83.5 05/29/09 NCH

Field Sample #: WFV-007

\$Sampled: 5/26/2009 Sample ID: 09B14295

Not Specified

SOIL Sample Matrix:

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi

% 05/29/09 NCH Solids, total 83.6

Field Sample #: WFV-008

Sample ID: 09B14296 **\$Sampled: 5/26/2009**

Not Specified

Sample Matrix: SOIL

Units Results Date RLSPEC Limit P/F Analyst Analyzed Lo Hi NCH

% 84.2 05/29/09 Solids, total

Field Sample #: WFV-009

Sample ID: **\$Sampled:** 5/26/2009 09B14297

Not Specified

Sample Matrix: SOIL

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

Field Sample #: WFV-010

\$Sampled: 5/26/2009 Sample ID: 09B14298

Not Specified

SOIL Sample Matrix:

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

RL = Reporting Limit

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

ND = Not Detected at or above the Reporting Limit

^{* =} 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 5/29/2009
650 SUFFOLK STREET Page 7 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-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 Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

Solids, total % 83.6 05/29/09 NCH

RL = Reporting Limit

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to

ND = Not Detected at or above the Reporting Limit 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 5/29/2009
650 SUFFOLK STREET Page 8 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF) LIMS-BAT #: LIMT-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 Analyst RL SPEC Limit P/ F
Analyzed Lo Hi

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 Analyst RL SPEC Limit P/ F Analyzed Lo Hi

Solids, total % 82.2 05/29/09 NCH

Field Sample #: WFV-115

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst RL Analyst RL Analyst RL Analyzed
 SPEC Limit P/ F Lo Hi

 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

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 5/29/2009
650 SUFFOLK STREET Page 9 of 9

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WF)

Date Received: 5/27/2009

LIMS-BAT #: LIMT-25213

Job Number: 115058

** END OF REPORT **

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



39 Spruce Street $^\circ$ East Longmeadow, MA $\,$ 01028 $^\circ$ FAX 413/525-6405 $^\circ$ 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 #: LIMT-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 BI %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



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 #: LIMT-25213 Page 2 of 2

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

This is the number assigned to all samples analyzed together that QC BATCH NUMBER

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.

Amount of analyte found in a sample. Sample Amount

Method Blank that has been taken though all the steps of the Blank

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

Amount of analyte found including amount that was spiked MS Amt Measured

Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.

The Relative Percent Difference between two Duplicate Analyses. Duplicate RPD

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) into samples to determine the performance of the

spiked 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 Duplicate Laboratory Fortified Blank Amount Found Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank % Recovery Dup Lab Fort Bl % Rec

Laboratory Fortified Blank Range (Absolute value of difference Lab Fort Blank Range 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

Matrix Spike Duplicate Amount Added (Spiked) MSD Amount Added 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 AN	alytical Methoe	REPORT CERTI	FICATION F	ORM	
Lab	oratory Name: Co	ON-TEST Analyti	cal Laboratory		Project #	‡LIn	1T-25213
Proj	ect Location: Ca	TY OF NEW I	BEDFORD (N	OF)	MADEP	RTN ¹ :	Alderson A. Allerson
This	Form provides co	ertifications for the	following data set		Sample IE) Num	nber(s)]
Sam	nple Matrices:	Groundwater 🗖	Soil/Sediment []	Drinking Water	□ Other: _		
Mo	CP SW-846	8260B()	8151A ()	8330 ()	6010B	X)	7470A/1A ()
Me	thods Used	8270C ()	8081A ()	VPH()	6020	,	9014M ² ()
	ecified in MADEP	8082 ()	8021B ()	EPH()	7000 S ³	()	7196A ()
Analy	pendium of tical Methods ck all that apply)	2 M - SW-846 Me	cking Number (RTN thod 9014 or MADE thods 7000 Series	P Physiologically /			(PAC) Method
Ап	affirmative respo	onse to question	s A, B, C and D is	s required for "F	Presumpti	ve Ce	rtainty" status
Α		es received by the conthe Chain-of-Cu)%/ Y	'es □ No¹
В	Were all QA/Q0 included in this	C procedures request report followed arrative QC data to	uired for the speci	ified analytical mequirement to r	nethod(s) note and	X	´Yes □No¹
С	for "Presumptive (d) of the MADE	ncluded in this repe e Certainty", as de EP document CAM nes for the Acquisi	escribed in Sectio // VII A, "Quality A	n 2.0 (a), (b), (c Assurance and Q) and uality	Ø	Yes □ No ¹
D		<i>Methods only</i> : W nt modifications (s					Yes □ No 1
	A response to q	uestions E and F	below is require	d for "Presump	tive Certa	inty"	status
E		cal QC performan thods achieved?	ce standards and	recommendation	ns for	A `	Yes □ No ¹
F	Were results for method(s) repor	r all analyte-list ited?	compounds/eleme	ents for the spe	cified	ΟY	′es Æ⁄No¹
¹ All	Negative respon	ses must be addr	essed in an attach	ed Environmenta	al Laborato	ry cas	se narrative.
inquii	y of those res	test under the pa sponsible for ob the best of my k	taining the info	rmation, the m	naterial co	ntain	
Signa	ature: Edw	raid Dens	on	Position: Tec	hnical Dire	ector	·
Printe	ed Name: Edwa	ard Denson		Date: 5	29/09		



Fax: 413-525-6405 Phone: 413-525-2332

Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

[1m1-252]

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

20000	LOOR
	Page
	-00000

	Received by:		Relinquished by:		Received by	1	Relinquisbe			Laboratory Comments:									Field ID	□ yes	Proposal F		Sampled By:	Project Location:	Attention:			Address:	Company Name:	
Contract of the second	y: (signature)	All Marine Com-	d by: (signature)	A Commission of the Commission	Received by (signature)	in 1/1/28th	Relinquished by: (signature)	Mary Control	Hold all tour	· ·	WFV-8	マスフ	WFV-6	ED-5	と トノナの	STV-3	WFVZ	HE WIS-	Sample Description	proposal date	Proposal Provided? (For Billing purposes)		By: K. K. t. Chick, A.	City of	0224 02		700	APPLYS OSO	Name:	
	Date Time: (7)	マルシのじる		200 B	Date/Time:	21 61 K215	Date/Time:		コクアーボーベング		96411	1964	1641	26471	t6441	7 4	111) 40	111.89	Lab #098	∭ yes □ no	State Form Required?		500135	Consedted (NF)	Ouliver	`	7	r 9.	The state of the s	
Require lab approval	72-Hr □ *4-Day	0 *24-Hr *48-Hr	RUSH *	Other	☐ 10-Day	7-Day	Turnaround **		くばく		1055	I GST	2101	1035	10%	1075	1018	sleules 1015	Start Stop Qate/Time Date/Time	Date Sampled	O OTHER	Format: XEXCEL	Email: Southing	Fax # : X-181711	DATA DELIVERY (check one):		Client PO#	Project # // 5	Telephone:(7/0) //	1 2 2
al	- AntiquitANAMANANA Antiquitana Antiquitan	Special Requirements		_ Data Enhancement P		Regulations?	Detection Limit	1	De l	Plea	×	×	X	×	X	× (1)	X	× \	Comp- 9 osite Grab Code		R	APDF AGIS	retusolyticis can		check one):			115058	7.7	
	Withing	nts or DL's:		roject/RCP?		JULY 8-115.	Requiremen	H - High; M - Medium; L - Low; C - Clean; U - Unknown	be high in concentration in Matrix/Conc. Code Box:	Please use the following codes to let Con-Test know if a specific sample may	S A X	ン ス	X X	X X	۶ ×	\(\times \)	アス	χ Χ	trix Conc.	3		IS KEY	Tons: Can					\$		- 1
O = other	SL = sludge	S = soil/solid	A = air	□ N DW = drinking water	WW= wastewater	500 GW= groundwater	*Matrix Code:	_ow; C - Clean; U - Ui	Matrix/Conc. Code Bo	des to let Con-Test kn																	ANALYSIS			
o = Other	B = Sodium bisulfate	S = Sulfuric Acid	N = Nitric Acid	ater M = Methanol	M = HCL	er = lced	**Preservation Codes:	nknown	X:	ow if a specific samp											03-00-00-0						ANALYSIS REQUESTED			
	isulfate	cid			T = Na thiosulfate	X = Na hydroxide	in Codes:			le may			/					Comments:		0=Other	T=tedlar bag	S=summa can	V= vial	ST-sterile	G=glass	A-amber glass	-Cont. Code:	~Cont.Code	**Preservation)



Phone: 413-525-2332

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

CHAIN OF CUSTODY RECORD

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

The second of th	The second of th	*Require lab sentroval		*Require lab approval		9/Time: 27-09 1730 171/0: 1736 171/0		Reinquished by: (signature) Received by: (signature) Acceived by: (signature)	Rélinquis Received
Data Emilian Cojeculor: A Divi Dw = aminimg water	Data Emainement Tojevonor : N. D.N.	Data Linancement Toleronous	Data Linarconton		* HSUE			gnanye)	ned by: (si
H = HCL	y Data Enhancement Project/RCP? Y DN	y Data Enhancement Project/RCP?	y Data Enhancement P	×	10-Day Other	<u> </u>	Date/Time:	Received by: (signature)	NE BUL
7-Day Regulations? M(P 5-1/5-2 GW= groundwater I = loed X = Na hydroxide	Regulations? MCP 5-1/5-2	Regulations? ////	Regulations? ////	Regulations?	-Day	7-Day	5/2/109 157	A Sept Miles Manufactures	- Lubrillo
H - High; M - Medium; L - Low; C - Clean; U - Unknown	H - High; M - Medium; L - Low;	H - Hig	H - Hig		44	age :		The second secon	
Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:					272		for totential	Laboratory Comments: Hold all	orator
1250 X N X N S X	NSX	NSX	×		052	4	114384603	WFV-115	
1 x y x x x x x x x x x x x x x x x x x	n s x	n s x	× ×		0511		1434302	WFV-18	
1140 x s u x Haya	N 5 X	N 5 X	× ×		140		+459+	とわら	
120 X SU X	9 X	9 X	9 X	120 X	120		10271	ご担(0	
INS X X X X	XSU	XSU	XS	`	Ī		90841	シャアンフ	
	くいっ	くいっ	X S		0	entilette.	46-441	スカーニ	
Ilos XX MX	XSX	XSX	XSX		05	Edgesto-	8041	WFV-10	THE CASE OF THE CA
NO X S Q X	×	×	×		8	5/24/09 11	79271	シナノーマ	
Stop Comp- *Matrix Conc. A Date/Time osite Grab Code Code	Comp- *Matrix Conc.	Comp- *Matrix Conc.	Comp- *Matrix Conc.	Comp- Time osite Grab	p e/Time	Start Stop	Lab # 09B	D Sample Description	Field ID
				pled	pled	Date Sampled	Øyes □ no	yes proposal date	☐ yes
E.	E.	E.	E.	E.	OTHER		State Form Required?	Proposal Provided? (For Billing purposes)	oposa
					XCEL				
dsullivan @ tucsolutions.com					of the		ANDRINS	Sampled By: K. K. K. T.	plec
T C C	T C C	T C C	T C C	T C C		Fax # :	New Bed and (WF	Project Location: CHUS New	ect [
MEMAII TWERSITE CHENT	11	11	11	11	MAII				
DATA DELIVERY (check one):	ERY (check one):	ERY (check one):	ERY (check one):	/ERY (check one):	ERY (DATA DELIV	な言える	David	Attention:
ANALYSIS REQUESTED	ANALYSIS REQ					Client PO #	MA-01854	(owell, M	
115058 G	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	115058	115058	115	Project #	C 57.	SSS 639 Sufffly	Address:
Telephone: (4/8 / 10 3 600]			18/10/3000	8/10/30	9	Telephone:(ゲ		Company Name: /// C	ompar
4 270-700)	7 970- \(\frac{1}{2}\)	10025-060 %	人のとつくべくこ	77-070 25	7		www.contestlabs.com	1	



Fax: 413-525-6405 Phone: 413-525-2332

Email: info@contestlabs.com

SPER TWIT

CHAIN OF CUSTODY RECORD

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

Page
W
으
2

*****	O Other	O = other					approval	* Require (ab approva	,	10110	\$4\$\text{cyt}\000000000000000000000000000000000000	
	B = Sodium bisulfate	SL = sludge					4-Day	72-Hr □ *4-Day	かり	Date/Time:	o) / 1.00	Received by: (signature)
	S = Sulfuric Acid	S = soil/solid		r DL's:	ments o	Special Requirements or DL's:		☐ *24-Hr X 2**48-Hr	100	ながん	124 4 3	108012
	N = Nitric Acid	A = air	•				*	RUSH *		Date/Time:	ature)	Relinguished by: (signature
	anol	DW = drinking water	N D N	roject/RCP?	nent Proj	Data Enhancement P	OtherDe	□	100	Caras	Character Charac	
T = Na thiosulfate	H=HCL T=N	ww= wastewater					10-Day	10		Date/Time:		Received by, (signature)
X = Na hydroxide	I = lced X = ?	GW= groundwater	15-2	P S-1		Regulations?		1 7-	100	3/27/09	11988	
S	**Preservation Codes:	*Matrix Code:	ments	Requirements	imit A	Detection I		Turnaround **)	Date/Time:	alure)	Relinquished by: (signature)
	ח	C - Clean; U - Unknown	H - High; M - Medium; L - Low;	; M - Mec	H - High		,					
		be high in concentration in Matrix/Conc. Code Box:	tration in Mate	n concer	be high i	action devices the	Hualy siz		TCLP	totalton	tar	Ex SI
	t specific sample may	Please use the following codes to let Con-Test know if a specific sample may	llowing codes	ise the fo	Please u			•			,	Laboratory Comments
	(F)	-	<u>></u>	C	S	*	S S	•		www.co	TV-23	三させ
	14045		X	2	Ś	×	1230				WEN-SU	
¥			×		S	×	1225	9		14302	W FV-21	
	14045		K	2	V	~	222				WFV-ZO	*
	HOID		<u>×</u>	C	Ω,	×	210				ユヤー ロ	Ž
	Ross		X	Σ.	S	K	1205	5/26/09			ベドゾーフ	3
	DUP When	na/sm	X	۶	Ø	×	1200	5/12/09/1200		4108711	MEV-18	1 W
<u>Client</u> Comments:	For		<u> </u>	7	V	×	551	Stevius			WFV-16	الم م
			<u> </u>	Conc. Code	*Matrix Conc Code Code	Comp- osite Grab	Stop Ca Date/Time c	Start Single Date/Time D	8	Lab # J V B	Sample Description	Field ID Sample
0_Other			5				npled	Date Sampled	no no	yes [proposal date	☐ yes
T-tediar bag							20		Required?	State Form Required?	Proposal Provided? (For Billing purposes)	Proposal Provided?
S=summa can				무	A GIS KEY	Appr Appr	DEXCEL X	Format:				İ
¥i B				<u> </u>	trains	tresolu	llivare	Email: dsullivare tresolutions con	SST	A. Weiss	でしていた。	Sampled By:
P⇒plastic ST⊨sterile		Account of the second			LIENT	DWEBSITE CLIENI	ZEMAIL OV	Fax#:	(NUF)	seffered	Project Location: City of New Beefford (WF	Project Location: 6
G=glass						ck one):	VERY (che	H	Activities	Sullivar	David Sul	Attention:
Cont. Code:		ANALYSIS REQUESTED			***************************************	i.		Client PO#		45810	Lowell MA	
~Cont.Code			6			18088	115	Project #		4	bos Suffall	Address:
**Preservation			<u> </u>	e 1.	8	970-5600	13 186	Telephone:(978)			TRC	Company Name:
# of containers			all Company				,		stlabs.com	www.contestlabs.com		***

and the state of t	
- CONTRACTOR	
ANALYTICAL LABORATORY	
6	

Phone: 413-525-2332

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

CHAIN OF CUSTODY RECORD

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

Page	
\.	
<u> </u>	K.
46540400	(Dec

		o tother			* Require lab approval	2000	The state of the s	Á
visulfate	B = Sodium bisulfate	SL = sludge			72-Hr 🗖 *4-Day	Date/Time: 1-71	Received by: (signature)	30
Cid	S = Sulfuric Acid	s = soil/solid	DL's:	Special Requirements or DL's:		11x	Charles and the second	J
α.	N = Nitric Acid	A = air	**		RUSH.*	Date/Time:	Relinquished by: (signature)	ŢŢ
	M = Methanol	DW= drinking water	CVRCP? Y UN	Data Enhancement Project/RCP? A V D N	Other	535 15B	MI ROSE TON	T
T = Na thiosulfate	H = HCL	ww= wastewater		Andreas and the second and the secon	□ 10-Day	Date/Time:	Received by (signature)	תכ
X = Na hydroxide	I = Iced	GW= groundwater	2-5/1Kg	Regulations? MCF		5/27/09 100	1 Kg 1 fres	T
on Codes:	**Preservation Codes:	*Matrix Code:	Requirements	Detection Limit R	Turnaround **	Date/Timje:	Relinquistred by: (signetyre)	T
	vn	C - Clean; U - Unknown	H - High; M - Medium; L - Low;	H - High;	The second secon	A TOTAL OF THE PROPERTY OF THE		1
		rix/Conc. Code Box:	be high in concentration in Matrix/Conc. Code Box:	be high ir	at Tour	remaining for potential	Hold all remainin	
ole may	a specific samp	Please use the following codes to let Con-Test know if a specific sample may	se the following codes	Please u				
			€	<	<		The control of the co	T
Contraction of the Contraction o						The state of the s	THE REPORT OF THE PROPERTY OF	7
- (The second secon					
								1
And a second sec					3		Landonstein en statistische en	Ŧ
			The state of the s					
				And Agency and			ALL PARTY OF THE PROPERTY OF T	Τ
						The state of the s		Т
	(H)			***************************************	1245		22-NTW	
Comments:			×	1 S X	5/2469 1240	1871	WFV-24	T .
			Conc.	Comp- *Matrix Cosite Grab Code C	Start Stop Date/Time Date/Time	Lab # 0 Y 8	Field ID Sample Description	(- , ,
O=Other			5		Date Sampled	Myyes □ no	yesproposal date	1
T∞tedlar bag				A CONTRACTOR OF THE PROPERTY O	C) OTHER	State Form Required?	Proposal Provided? (For Billing purposes)	~~~~
S⊭summa can			~	APDF DESKEY	Format: X EXCEL			
V= viai			Com	to tresolutions ?	Email: Chullivan	4.67.55	Sampled By:	m
ST=sterile						Now I Brokery (WF)	Project Location: CHY 87, Nay 164	777
T T T T T T T T T T T T T T T T T T T				DWEBSITE CLIENT	DFAX XEMAIL			
Q ii Q iacs				neck one):	DATA DELIVERY (check one):	225	Attention: Down d'Sallivour	7
-Cont. Code:		ANALYSIS REQUESTED	1		Client PO #	45810	lowell, MA	
~Cont.Code			1	85055	Project # 1/5	\$	Address: 650 Suffile	~
**Preservation			H	570-5600	Telephone: (778) 570		Company Name: TRC	
# of containers						www.contestlabs.com	and an analysis of the second and analysis of the second a	

www.contestlabs.com



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405

RECEIVED BY: OF DATE: 5/3/10

CLIENT NAME: TE-L	<u> </u>	RECEIV	/ED BY: (/b	DATE:_	7101101
1) Was the chain(s) of custody 2) Does the chain agree with the lf not, explain:	·	gned?	Yes N		
3) Are all the samples in good of If not, explain:	condition?		Yes N	0	
4) How were the samples recei	ved:				
On Ice Direct from	Sampling	Ambient	t 🔲 In Cooler(s) 📈	
Were the samples received in 1	a a	ance of (2-	-6°C)? (Yes No	O	
Temperature °C by Temp blank _	4.0	Temper	ature °C by Temp gun		
5) Are there Dissolved samples			Yes (N	7)	
Who was notified	Date	Tim	ne	«A	
6) Are there any samples "On H	lold"?		/Yes ✓ 🖟	Stored v	vhere:
7) Are there any RUSH or SHOF	RT HOLDING TIME sa	amples?	Yes N	•	
Who was notified	Date	Tim	ne	***************************************	2-744402-2-1-1-1
8) Location where samples are stored:		44	Permission to sub- (Walk-in clients on Client Signature:	•	·
•	Containers s	ent in	to Con-Test		
	# of containers				# of containers
1 Liter Amber			8 oz clear jar		2 /
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 / Ziplo	c l	
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		
aboratory Comments:					
I0 mL vials: # HCI	# Methanol				delimination of the second of
	# DI Water Time and Date Frozen:				
****	Unpreserved				

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