

REPORT DATE 2/24/2009

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

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23316

JOB NUMBER: 115058

PROJECT LOCATION: CITY OF NEW BEDFORD (WALSH)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
POST-36 (66-72)	09B04410	SOIL	Not Specified	as (mg/kg)dw icp	
POST-36 (66-72)	09B04410	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-36 (66-72)	09B04410	SOIL	Not Specified	solids (percent)	
POST-3F (12-18)	09B04404	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (12-18)	09B04404	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (12-18)	09B04404	SOIL	Not Specified	solids (percent)	
POST-3F (18-24)	09B04405	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (18-24)	09B04405	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (18-24)	09B04405	SOIL	Not Specified	solids (percent)	
POST-3F (24-30)	09B04406	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (24-30)	09B04406	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (24-30)	09B04406	SOIL	Not Specified	solids (percent)	
POST-3F (30-36)	09B04407	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (30-36)	09B04407	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (30-36)	09B04407	SOIL	Not Specified	solids (percent)	
POST-3F (36-42)	09B04408	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (36-42)	09B04408	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (36-42)	09B04408	SOIL	Not Specified	solids (percent)	
POST-3F (42-48)	09B04409	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (42-48)	09B04409	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (42-48)	09B04409	SOIL	Not Specified	solids (percent)	
POST-3F (48-54)	09B04411	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (48-54)	09B04411	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (48-54)	09B04411	SOIL	Not Specified	solids (percent)	
POST-3F (54-60)	09B04412	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (54-60)	09B04412	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (54-60)	09B04412	SOIL	Not Specified	solids (percent)	
POST-3F (6-12)	09B04403	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (6-12)	09B04403	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (6-12)	09B04403	SOIL	Not Specified	solids (percent)	
POST-3F (60-66)	09B04413	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (60-66)	09B04413	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (60-66)	09B04413	SOIL	Not Specified	solids (percent)	
POST-3F (66-72)	09B04414	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3F (66-72)	09B04414	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3F (66-72)	09B04414	SOIL	Not Specified	solids (percent)	
POST-3G (12-18)	09B04416	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3G (12-18)	09B04416	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3G (12-18)	09B04416	SOIL	Not Specified	solids (percent)	



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CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

				LIMS BAT #: LIMT-23316 JOB NUMBER: 115058
POST-3G (18-24)	09B04417	SOIL	Not Specified	as (mg/kg)dw icp
POST-3G (18-24)	09B04417	SOIL	Not Specified	pb (mg/kg)dw icp
POST-3G (18-24)	09B04417	SOIL	Not Specified	solids (percent)
POST-3G (24-30)	09B04418	SOIL	Not Specified	as (mg/kg)dw icp
POST-3G (24-30)	09B04418	SOIL	Not Specified	pb (mg/kg)dw icp
POST-3G (24-30)	09B04418	SOIL	Not Specified	solids (percent)
POST-3G (6-12)	09B04415	SOIL	Not Specified	as (mg/kg)dw icp
POST-3G (6-12)	09B04415	SOIL	Not Specified	pb (mg/kg)dw icp
POST-3G (6-12)	09B04415	SOIL	Not Specified	solids (percent)



REPORT DATE 2/24/2009

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

CONTRACT NUMBER: PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #:

LIMT-23316

JOB NUMBER: 115058

Comments:

LIMS BATCH NO.: LIMT-23316

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

Sample duplicate and ms performed on sample 09B04411. Only As and Pb 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.

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 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-36 (66-72)

Sample ID: 09B04410 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt 3.69 02/22/09 AMP 3.36

Field Sample #: POST-3F (12-18)

Sample ID: 09B04404 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt 7.70 02/22/09 AMP 2.81

Field Sample #: POST-3F (18-24)

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt 4.49 02/22/09 AMP 2.74

Field Sample #: POST-3F (24-30)

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt 3.02 02/22/09 AMP 2.80

Field Sample #: POST-3F (30-36)

Sample ID: 09B04407 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi Arsenic 4.46 02/22/09 AMP 2.82 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



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TRC SOLUTIONS - LOWELL 2/24/2009 650 SUFFOLK STREET Page 2 of 13

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3F (36-42)

09B04408 **\$Sampled: 2/17/2009** Sample ID:

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL

Lo Analyzed Hi

Arsenic mg/kg dry wt 4.53 02/22/09 **AMP** 2.83

Field Sample #: POST-3F (42-48)

Sample ID: 09B04409 ‡Sampled: 2/17/2009

Not Specified

SOIL Sample Matrix:

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

Arsenic mg/kg dry wt 3.68 02/22/09 **AMP** 2.88

Field Sample #: POST-3F (48-54)

Sample ID: 09B04411 **\$Sampled: 2/17/2009**

Not Specified

Sample Matrix: SOIL

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

02/22/09 Arsenic mg/kg dry wt 5.73 **AMP** 2.86

Field Sample #: POST-3F (54-60)

Sample ID: **\$Sampled: 2/17/2009** 09B04412

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt 4.61 02/22/09 AMP 2.84

Field Sample #: POST-3F (6-12)

‡Sampled: 2/17/2009 Sample ID: 09B04403

Not Specified

SOIL Sample Matrix:

Units Results Date SPEC Limit P/F Analyst RL Analyzed Lo Hi Arsenic 221 02/22/09 AMP 3.05 mg/kg dry wt

SPEC LIMIT = a client specified recommended or RL = Reporting Limit

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.

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TRC SOLUTIONS - LOWELL 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3F (60-66)

Sample ID: 09B04413 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Arsenic mg/kg dry wt 4.30 02/22/09 AMP 2.96

Field Sample #: POST-3F (66-72)

Sample ID: 09B04414 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Arsenic mg/kg dry wt 3.95 02/22/09 AMP 2.96

Field Sample #: POST-3G (12-18)

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Arsenic mg/kg dry wt ND 02/22/09 AMP 2.68

Field Sample #: POST-3G (18-24)

Sample ID: 09B04417 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt 3.42 02/22/09 AMP 2.72

Field Sample #: POST-3G (24-30)

Sample ID: 09B04418 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Arsenic mg/kg dry wt ND 02/22/09 AMP 2.68

RL = Reporting Limit SPEC LIMIT = a client specified recommended or

ND = Not Detected at or above the Reporting Limit regulatory level for comparison with data to

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

NM = Not Measured

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DAVID SULLIVAN

TRC SOLUTIONS - LOWELL 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3G (6-12)

Sample ID: 09B04415 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Date RL SPEC Limit P/F Results Analyst Hi Analyzed Lo Arsenic mg/kg dry wt 76.5 02/22/09 AMP 3.04

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.

NM = Not Measured

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

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



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TRC SOLUTIONS - LOWELL 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-36 (66-72)

Sample ID: 09B04410 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 79.0 02/22/09 AMP 1.01

Field Sample #: POST-3F (12-18)

Sample ID: 09B04404 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 33.8 02/22/09 AMP 0.85

Field Sample #: POST-3F (18-24)

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 18.2 02/22/09 AMP 0.83

Field Sample #: POST-3F (24-30)

Sample ID: 09B04406 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst
 RL
 SPEC Limit
 P/ F

 Analyzed
 Lo
 Hi

Lead
mg/kg dry wt
207
02/22/09
AMP
0.84

Field Sample #: POST-3F (30-36)

Sample ID: 09B04407 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Results Date SPEC Limit P/F Analyst RL Analyzed Lo Hi Lead 11.0 02/22/09 AMP 0.85 mg/kg dry wt

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TRC SOLUTIONS - LOWELL 2/24/2009
650 SUFFOLK STREET Page 6 of 13

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3F (36-42)

Sample ID: 09B04408 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 27.1 02/22/09 AMP 0.85

Field Sample #: POST-3F (42-48)

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 27.1 02/22/09 AMP 0.87

Field Sample #: POST-3F (48-54)

Sample ID: 09B04411 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 31.3 02/22/09 AMP 0.86

Field Sample #: POST-3F (54-60)

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst
 RL SPEC Limit
 P/ F

 Analyzed
 Lo Hi
 Lo Hi

Field Sample #: POST-3F (6-12)

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi Lead 37.8 02/22/09 AMP 0.92 mg/kg dry wt

RL = Reporting Limit

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

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TRC SOLUTIONS - LOWELL 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3F (60-66)

Sample ID: 09B04413 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 35.2 02/22/09 AMP 0.89

Field Sample #: POST-3F (66-72)

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 319 02/22/09 AMP 0.89

Field Sample #: POST-3G (12-18)

Not Specified

Sample Matrix: SOIL

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

Lead mg/kg dry wt 9.06 02/22/09 AMP 0.81

Field Sample #: POST-3G (18-24)

Sample ID: 09B04417 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

 Units
 Results
 Date Analyst
 RL SPEC Limit
 P/ F

 Analyzed
 Lo Hi
 Lo Hi

Field Sample #: POST-3G (24-30)

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Lo Hi Lead 42.1 02/22/09 AMP 0.81 mg/kg dry wt

RL = Reporting Limit

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

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TRC SOLUTIONS - LOWELL 2/24/2009 650 SUFFOLK STREET Page 8 of 13

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3G (6-12)

09B04415 **\$Sampled: 2/17/2009** Sample ID:

Not Specified

Sample Matrix: SOIL

Units RL SPEC Limit P/F Results Date Analyst Analyzed Lo Ηi Lead mg/kg dry wt 32.1 02/22/09 AMP 0.92

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.

NM = Not Measured

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

^{# =} See attached chain-of-custody record for time sampled



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TRC SOLUTIONS - LOWELL 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-36 (66-72)

Sample ID: 09B04410 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Solids, total % 74.6 02/20/09 FD

Field Sample #: POST-3F (12-18)

Not Specified

Sample Matrix: SOIL

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

Analyzeu

02/20/09

FD

Solids, total %
Field Sample #: POST-3F (18-24)

Sample ID: 09B04405 ‡Sampled: 2/17/2009

Not Specified

89.1

Sample Matrix: SOIL

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

Solids, total % 91.3 02/20/09 FD

Field Sample #: POST-3F (24-30)

Sample ID: 09B04406 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Solids, total % 89.3 02/20/09 FD

Field Sample #: POST-3F (30-36)

Sample ID: 09B04407 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

 Analyzed
 Lo
 Hi

Solids, total
%
88.9
02/20/09 FD

RL = Reporting Limit

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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



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TRC SOLUTIONS - LOWELL 2/24/2009
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LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3F (36-42)

Sample ID: 09B04408 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

Units Results Date Analyst RL SPEC Limit P/ F

Analyzed Lo Hi

Solids, total % 88.4 02/20/09 FD

Field Sample #: POST-3F (42-48)

Sample ID: 09B04409 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Solids, total % 86.9 02/20/09 FD

Field Sample #: POST-3F (48-54)

Sample ID: 09B04411 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Solids, total % 87.5 02/20/09 FD

Field Sample #: POST-3F (54-60)

Sample ID: 09B04412 ‡Sampled: 2/17/2009

Not Specified

Sample Matrix: SOIL

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

Solids, total % 88.2 02/20/09 FD

Field Sample #: POST-3F (6-12)

Not Specified

Sample Matrix: SOIL

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

Solids, total % 82.1 02/20/09 FD

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



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TRC SOLUTIONS - LOWELL 2/24/2009 650 SUFFOLK STREET Page 11 of 13

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3F (60-66)

09B04413 **\$Sampled: 2/17/2009** Sample ID:

Not Specified

Sample Matrix: SOIL

Units SPEC Limit P/F Results Date Analyst RL

Analyzed Lo Ηi

% Solids, total 84.7 02/20/09 FD

Field Sample #: POST-3F (66-72)

Sample ID: 09B04414 ‡Sampled: 2/17/2009

Not Specified

SOIL Sample Matrix:

Units Results Date RL SPEC Limit P/F Analyst

Analyzed Lo Hi

% 02/20/09 FD Solids, total 84.7

Field Sample #: POST-3G (12-18)

Sample ID: 09B04416 **\$Sampled: 2/17/2009**

Not Specified

Sample Matrix: SOIL

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

02/20/09 Solids, total 93.6 FD

Field Sample #: POST-3G (18-24)

Sample ID: **\$Sampled: 2/17/2009** 09B04417

Not Specified

Sample Matrix: SOIL

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

% Solids, total 92.1 02/20/09 FD

Field Sample #: POST-3G (24-30)

‡Sampled: 2/17/2009 Sample ID: 09B04418

Not Specified

SOIL Sample Matrix:

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

Solids, total % 93.4 02/20/09 FD

SPEC LIMIT = a client specified recommended or RL = Reporting Limit

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



DAVID SULLIVAN

TRC SOLUTIONS - LOWELL 2/24/2009 650 SUFFOLK STREET Page 12 of 13

Purchase Order No.: LOWELL, MA 01852

Project Location: CITY OF NEW BEDFORD (WALSH) LIMS-BAT #: LIMT-23316

Date Received: 2/17/2009 Job Number: 115058

Field Sample #: POST-3G (6-12)

Sample ID: 09B04415 **\$Sampled: 2/17/2009**

Not Specified

Sample Matrix: SOIL

Units Results Date RL SPEC Limit P/F Analyst Analyzed Hi Lo Solids, total % 82.4 02/20/09 FD

Analytical Method:

SM 2540G

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

RL = Reporting Limit

NM = Not Measured

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



DAVID SULLIVAN

TRC SOLUTIONS - LOWELL 2/24/2009
650 SUFFOLK STREET Page 13 of 13

LOWELL, MA 01852 Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH)

Date Received: 2/17/2009

LIMS-BAT #: LIMT-23316

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:	2/24/2009	Lims Bat #: LIMT-23316		Page 1 of	2
QC Batch Number	er: ICP-21203				
Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B04411					
	Arsenic	Sample Amount	5.72	mg/kg dry wt	
		Duplicate Value	6.13	mg/kg dry wt	
		Duplicate RPD	6.89	%	0-35
		Sample Amount	5.72	mg/kg dry wt	
		Matrix Spk Amt Added	28.57	mg/kg dry wt	
		MS Amt Measured	35.25	mg/kg dry wt	
		Matrix Spike % Rec.	103.35	%	75-125
	Lead	Sample Amount	31.31	mg/kg dry wt	
		Duplicate Value	31.13	mg/kg dry wt	
		Duplicate RPD	0.57	%	0-35
		Sample Amount	31.31	mg/kg dry wt	
		Matrix Spk Amt Added	28.57	mg/kg dry wt	
		MS Amt Measured	63.56	mg/kg dry wt	
		Matrix Spike % Rec.	112.85	%	75-125
BLANK-129814					
	Arsenic	Blank	<2.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
FBLANK-91935	5				
	Arsenic	Lab Fort Blank Amt.	123.00	mg/kg dry wt	
		Lab Fort Blk. Found	135.91	mg/kg dry wt	
		Lab Fort Blk. % Rec.	110.49	%	80-120
		Dup Lab Fort BI Amt.	123.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	134.26	mg/kg dry wt	
		Dup Lab Fort BI %Rec	109.15	%	80-120
		Lab Fort Blank Range	1.34	units	
		Lab Fort Bl. Av. Rec	109.82	%	
		LFB Duplicate RPD	1.22	%	0-30
	Lead	Lab Fort Blank Amt.	136.00	mg/kg dry wt	
		Lab Fort Blk. Found	135.06	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.30	%	82-118
		Dup Lab Fort Bl Amt.	136.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	135.63	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.73	%	82-118
		Lab Fort Blank Range	0.42	units	
		Lab Fort Bl. Av. Rec	99.52	%	
		LFB Duplicate RPD	0.42	%	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: 2/24/2009 Lims Bat #: LIMT-23316 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 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
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

	N	MADEP MCP AN	IALYTICAL METHOD F	REPORT CERTI	FICATION F	ORM	
Labo	oratory Name: C 0	ON-TEST Analyti	ical Laboratory		Project #:		ML - 93310
Proje	ect Location: 👝 🕻	ith of we	W-BEDFORT	>	MADEP R		
This	Form provides ce	ertifications for the	e following data set:	[list Laboratory	Sample ID	Num	ber(s)]
	SABOULLO?	3-09Bo41	८ ११)				
Sam	ple Matrices:	Groundwater 🕻	Soil/Sediment □ D	rinking Water	☐ Other:		
МС	P 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	endium of tical Methods. k all that apply)	2 M - SW-846 M	acking Number (RTN), ethod 9014 or MADEP ethods 7000 Series Li	Physiologically			(PAC) Method
Ana	affirmative resp	onse to questio	ns A, B, C and D is	required for "l	Presumptiv	∕e Ce	ertainty" status
Α		-	he laboratory in a c Custody documentati			X	∕es □ No¹
В	included in thi	s report follower arrative QC data	quired for the specified, including the retailed that did not meet a	quirement to	note and	×	(Yes □ No¹
С	for "Presumptiv (d) of the MAD	e Certainty", as EP document CA	eport meet all the and described in Section AM VII A, "Quality As sition and Reporting	n 2.0 (a), (b), (ssurance and 0	c) and Quality	X	Yes □ No ¹
D			Was the VPH or EPH (see Section 11.3 of				Yes □ No ¹
	A response to d	questions E and	F below is required	d for "Presum	ptive Certa	inty"	' status
E	•	ical QC performa ethods achieved	ance standards and ?	recommendatio	ons for	X	Yes □ No¹
F	Were results for method(s) repo	-	t compounds/eleme	nts for the sp	ecified		Yes ∭No¹
1 A/	l Negative respo	nses must be add	dressed in an attach	ed Environmen	tal Laborato	ory ca	ase narrative.
inqui	ry of those re	sponsible for o	pains and penalties obtaining the info knowledge and be	rmation, the	material c	ontai	
Sign	ature: \colon	Kappen	2	Position: Di	rector of O	perat	tions
Prin	ted Name: Tod	Kopyscinski		Date:	24-09	<u> </u>	

CAM VII A, rev. 3.2 April 2004



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

Email: info@contestlabs.com

IMI- 83316

CHAIN OF CUSTODY RECORD

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

TELY OR IS TE/DBE Certified	ILLED OUT COMPLETELY OR IS ILLED OUT COMPLETELY OR IS	S ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS AIHA, NELAC & WBE/DBE Ce	AN. IF T	N YOUR CH	2	RE ARE QU	ILESS THEF	RECEIPT UN	E DAY AFTER SAMPLE F ART UNTIL ALL QUESTION	** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTION: INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.	** TURNAROUND TIM INCORRECT, TURNAI
	O = Other	O = other					* Require lab approval	* Require t	A1709 1818	N.O.C	The state of the s
ate	B = Sodium bisulfate	SL = sludge	,				J*4-Day	□ *72-Hr □ *4-Day	Date/Time; 10/0	C)	Received by (signature)
	S = Sulfuric Acid	S = soil/solid	and.	or DL's; ∑	Special Requirements or DL's: See Music	Special Re) *48-Hr	☐ *24-Hr ☐ *48-Hr	B13.8 1818	X	
	N = Nitric Acid	A = air		•			RUSH *	æĺ	Date/Time:	adiret	Relinquished by: (signature
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Phone: 413-525-2332

Fax: 413-525-6405

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

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CHAIN OF CUSTODY RECORD

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

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

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

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Page 6 of 4

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

Allta Brown a.s.



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

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G =glass			Ā	TWERSITE OF IENT	JEAX XEMAII JWERSITE	terminal control of the second control of th	
		····			חאדא חבו אבסע (בנ	.	utention: Tavid Salvan
	ANALYSIS REQUESTED			And the second s	Client PO #	45810	AM Manory
~Cont.Code		2	 	N	Project # 1/505%	4	650 Settolk S
**Preservation		Н	7	56-3565	1 elepnone: (4,48) (56-38	Propriestra de la compansa del la compansa de la co	
# of containers	44/	1	F	استعمد وسيد. عمد المعمد ا	ر جوامرام او در در در دا در	www.contestlabs.com	Company Name:



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

CHAIN OF CUSTODY RECORD

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

ICORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIFNT	TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAM	ecemen ox signature)	5.11.5		Time:	Market	elinquished by: (signature)		aboratory Comments:	Post-3M (45-54)	Post-3M (42-48)	Post-34 (36-42)	Post-34 (30-36)	Nost-34 (18-24)	1054-3M (12-18)	(6-12)	rield ID Sample Description Lab #	0	Toylded: (Fol プロロン (Fol	Sensor Design of The Rights	1 7 7 7	Project Location: City of NR (which)	Attention: Thorn Sollivan	Lowell MA 01854	DV Juttolk St.		Company Name: Tel
CORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CI IFNT	* Require lab approval	□ *72-Hr □ *4-Day	Special Requirements or DL's: Con Winter	Other 5.124 Data Enhancement Project/RCP? XY DN		7.Day Decertations 17.7		be high in concentration in Matrix/Conc. Code Box:		W W W W XXX	15i6 / XX	X X	1512 XX	1508 X X	1506 XX	dialon 1504 6 5 12 X X	Time Date/Time osite Grab Code Code	Date Sampled	O OTHER	Format: XEXCEL DPDF XGIS KEY		CLIENT	DATA DELIYERY (check one):	Client PO #	Project # 115058 6 6	7 7 7 S85: 000 (A+L) BIRINGSIBLE	
HIS FORM IS NOT FILLED OUT COMPLETELY OR IS	0 ≈ other 0 = Other		A = air	DW = drinking water H = HCL T = Na thiosulfate		*Matrix Code: **Preservation Codes:	; C - Clean; U - Unknown	use the following codes to let Con-Test know if a specific sample may in concentration in Watrix/Conc. Code Box:								<u>Client</u> Comments:		O=Other	S=Summa can	V= via	ST=sterile	G=glass P=plastic	A=amber glass	ANALYSIS REQUESTED _Cont. Code:	~Cont.Code	**Preservation	# of containers

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

AIUA AITS ACO MINTERS



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

Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

EAST LONGMEADOW, MA 01028

39 SPRUCE ST, 2ND FLOOR

VCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT	TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMBLE DECEMENT IN THE TAY AFTER SAMBLE DECEMENT	received by Asignature)	The state of the s	lelinguistred by (signature)	My Close	leceive(be): (signature)	remiduale (Fright)	Politonishophy (Simple)			aboratory Comments:							Post - 39 (54-60)	Post-3M (60-66)	Field ID Sample Description	yes LOET proposal date	<u>.</u>		1 6	oroject Location: City of Wiz (Attention: Tawish Sullivar	Lowell MA	650 Soffmik	1/2	Company Name:
ART UNTIL ALL QUESTI	F DAY AFTER SAMBLE	Date/Times /P/P	8181 5.14		200 1600	Date/Time:	Date/Time	The state of the s			W	***************************************								Lab #	yes ☐ no	State Form Required?	CIFFA		(interest)	<u></u>	45810	***************************************		www.contestlabs.com
ONS ARE ANSWERED F	* Require lab approval	□ *72-Hr □ *4-Day	□ *24-Hr □ *48-Hr	RUSH * /	Other day		nar								The state of the s			2/17/09 1545	1/17/09 1526	Date/Time Date/Time	ite s	OTHER	Format: X EXCEL		GFAX XEMAIL	DATA DELIVERY (check one):	Client PO#	Project # //.5	Telephone:(978) 656-358	
SNC			Special Requirements or DI		Data Enhancement Project/RCP? XY	Regulations? MCP s	Detection Limit Reg	H - High; M - Medium; L - Low;	be nigh in co	Please use i								2 5 0	N S 3	Comp- *Matrix Conc. osite Grab Code Code			D PDF KGIS KEY	1 1 1 1	OWEBSITE CLIENT	heck one):		5055	36-356	,
OUR CH			or DL's: Sa Queto	,	RCP?	5-1 /6-2	Requirements	- Mediun	ncentra	he follov						1	-	X	\times		[] []	inl	\ \	lusi	5 V) 1 C	<u></u>	İ	1	<u> </u>	
AN. IF			から			1	sints	ı; L - Loı	ion in M	ving code							-	X	X	7	Tota	n l		i Let	in, 6	2	×	0	7	
IN YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS	0 = other 0 =	SL = sludge	s = soil/solid	A = air	NW= wastewater		*Matrix Code:	w; C - Clean; U - Unknown	In concentration in Matrix/Conc. Code Box:	use the following codes to let Con-Test know if a specific sample may			- 100 - 100						111111111111111111111111111111111111111								ANALYSIS REQUESTED			TO THE PARTY OF TH
UT COMPL	O = Other	B = Sodium bisulfate	Sulfurio Acid	N = Nitric Acid	H = HCL	ced	**Preservation Codes:			cific sample																	- <u>-</u>			
ETELY OR IS	1	ulfate	2.	······································	T = Na thiosulfate	X = Na hydroxide	Codes:			may						1		W WITH THE PARTY OF THE PARTY O	Comments		• Other	S=summa can	V= vial	ST=sterile	P =plastic	A=amber glass	-Cont. Code:	~Cont.Code	**Preservation	# of containers

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Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

P: 413-525-2332

F: 413-525-6405

CLIENT NAME: TPC		_ RECEIV	(ED BY: OF	DA	TE: 2/17/08
1) Was the chain(s) of custody 2) Does the chain agree with the lf not, explain: 3) Are all the samples in good of lf not, explain:	e samples?	ned?	Yes Yes Yes	No No	
4) How were the samples received		A 1		, , , , , , , , , , , , , , , , , , , ,	and the state of t
	Sampling L	Ambient		oler(s)	
Were the samples received in T		•		No	
Temperature °C by Temp blank _	5.0	Tempera	ature °C by Temp	gun	
5) Are there Dissolved samples Who was notified		Tim	Yes e	(N)	
6) Are there any samples "On H			Yes	(No Stor	ed where:
7) Are there any RUSH or SHOR	T HOLDING TIME sai	mples?	Yes	(Ng	
Who was notified	Date	Time	9		
8) Location where samples are	stored:	1) #425400000000000000000000000000000000000	Í	ts only) if not	samples? Yes No already approved
	Containers se	nt in t	o Con Tor	s 4	V. 37 (200 00 00 00 00 00 00 00 00 00 00 00 00
	# of containers		0 0011-163) L	# of containers
1 Liter Amber			8 oz clear	jar	
500 mL Amber		palaria (pedia)	4 oz clear		86
250 mL Amber (8oz amber)			2 oz clear	ar	V
1 Liter Plastic	,		Other glass	jar	
500 mL Plastic	TOTAL MARKET		Plastic Bag / 2	Ziploc	
250 mL plastic			Air Casset	te	
40 mL Vial - type listed below			Brass Sleev	es .	
Colisure / bacteria bottle			Tubes	•	
Dissolved Oxygen bottle			Summa Ca	ns	
Flashpoint bottle			Regulators	3	
Encore			Other		
_aboratory Comments:	:				
# HCI # Bisulfate # HCI			Time and Date	Frozen:	