

Lionville Laboratory, Inc.
 INORGANIC ANALYTICAL DATA PACKAGE FOR
 TNUHANFORD X03-048 H2304

DATE RECEIVED: 08/05/03

LVL LOT # :0308L066

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B17B26						
TOTAL ORGANIC CARBON	001	W	03LTC028	07/31/03	08/12/03	08/12/03
TOTAL ORGANIC CARBON	001 REP	W	03LTC028	07/31/03	08/12/03	08/12/03
TOTAL ORGANIC CARBON	001 MS	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B27						
TOTAL ORGANIC CARBON	002	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B42						
TOTAL ORGANIC CARBON	003	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B43						
TOTAL ORGANIC CARBON	004	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B32						
TOTAL ORGANIC CARBON	005	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B33						
TOTAL ORGANIC CARBON	006	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B44						
TOTAL ORGANIC CARBON	007	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B45						
TOTAL ORGANIC CARBON	008	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B36						
TOTAL ORGANIC CARBON	009	W	03LTC028	07/31/03	08/12/03	08/12/03

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CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B17B37						
TOTAL ORGANIC CARBON	010	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B40						
TOTAL ORGANIC CARBON	011	W	03LTC028	07/31/03	08/12/03	08/12/03
B17B41						
TOTAL ORGANIC CARBON	012	W	03LTC028	07/31/03	08/12/03	08/12/03

LAB QC:

TOTAL ORGANIC CARBON	MB1	W	03LTC028	N/A	08/12/03	08/12/03
TOTAL ORGANIC CARBON	MB1 BS	W	03LTC028	N/A	08/12/03	08/12/03

Lionville Laboratory Incorporated

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LC = Laboratory Control Sample.
NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

ANALYTICAL WET CHEMISTRY METHODS

1. ASTM Standard Methods.
2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
3. Test Methods for Evaluating Solid Waste (USEPA SW-846).
 - a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).
 - b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
 - c. Method of Soil Analysis, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
 - d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
 - e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
 - f. Code of Federal Regulations.

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 08/18/03

CLIENT: TNUHANFORD X03-048 H2304
 WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0308L066

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
=====	=====	=====	=====	=====	=====	=====
-001	B17B26	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-002	B17B27	Total Organic Carbon	0.53	MG/L	0.50	1.0
-003	B17B42	Total Organic Carbon	0.51	MG/L	0.50	1.0
-004	B17B43	Total Organic Carbon	0.52	MG/L	0.50	1.0
-005	B17B32	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-006	B17B33	Total Organic Carbon	0.56	MG/L	0.50	1.0
-007	B17B44	Total Organic Carbon	0.55	MG/L	0.50	1.0
-008	B17B45	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-009	B17B36	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-010	B17B37	Total Organic Carbon	0.50 u	MG/L	0.50	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 08/18/03

CLIENT: TNUHANFORD X03-048 H2304
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0308L066

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
=====	=====	=====	=====	=====	=====	=====
-011	B17B40	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-012	B17B41	Total Organic Carbon	0.50 u	MG/L	0.50	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 08/18/03

CLIENT: TNUHANFORD X03-048 H2304
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0308L066

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
=====	=====	=====	=====	=====	=====	=====
BLANK10	03LTC028-MB1	Total Organic Carbon	0.50 u	MG/L	0.50	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 08/18/03

CLIENT: TNUHANFORD X03-048 H2304
 WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0308L066

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-001	B17E26	Total Organic Carbon	5.7	0.50	5.0	103.1	1.0
BLANK10	03LTC028-MB1	Total Organic Carbon	4.9	0.50u	5.0	98.8	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 08/18/03

CLIENT: TNUHANFORD X03-048 H2304
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0308L066

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR (REP)
=====	=====	=====	=====	=====	=====	=====
-001REP	B17B26	Total Organic Carbon	0.50u	0.50	NC	1.0

LIONVILLE LABORATORY INCORPORATED

SAMPLE RECEIPT CHECKLIST

CLIENT: *TRU Hartford*

Purchase Order/Project:

DATE: *8/15/03*

SAF# / SOW# / Release #: *X03-048*

Laboratory SDG #: *0808L066*

NOTE: ALL ENTRIES MARKED "NO" MUST BE EXPLAINED IN THE COMMENT SECTION

- | | | | | |
|--|---|--|---|---|
| 1. Custody seals on coolers or shipping container intact, signed and dated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 2. Outside of coolers or shipping containers are free from damage? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 3. Airbill # recorded? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 4. All expected paperwork received (coc and other client specific: historical data, alpha/beta or other screening data as applicable)? (paperwork sealed in plastic bag and taped to inside lid) | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 5. Sample containers are intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 6. Custody seals on sample containers intact, signed and dated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 7. All samples on coc received? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 8. All sample label information matches coc? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?) | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 10. Shipment meets LvLI Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy) | <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # <i>(1)</i> |
| 11. Where applicable, bar code labels are affixed to coc? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 12. coc signed and dated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 13. coc will be faxed or emailed to client? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date) | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> see Comment # |

Cooler # / temp (°C) and Comments:

#SAWS-035 / 5.6°C

① headspace present in samples.

Laboratory Sample Custodian: *J Perry 8/15/03 0915*

Laboratory Project Manager: