Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD F04-032

DATE RECEIVED: 06/15/05 LVL LOT # :0506L758

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1D7M8						
ALKALINITY	001	W	05LAK026	06/14/05	06/20/05	06/20/05
ALKALINITY	001 REP	W	05LAK026	06/14/05	06/20/05	06/20/05
NITRATE NITRITE	001	W	05LN3034	06/14/05	06/24/05	06/24/05
NITRATE NITRITE	001 REP	W	05LN3034	06/14/05	06/24/05	06/24/05
NITRATE NITRITE	001 MS	W	05LN3034	06/14/05	06/24/05	06/24/05
TOTAL ORGANIC CARBON	001	W	05LTC018	06/14/05	06/28/05	06/28/05
TOTAL ORGANIC CARBON	001 REP	W	05LTC018	06/14/05	06/28/05	06/28/05
TOTAL ORGANIC CARBON	001 MS	W	05LTC018	06/14/05	06/28/05	06/28/05
TOTAL INORGANIC CARB	001	W	05LTCA18	06/14/05	06/28/05	06/28/05
TOTAL INORGANIC CARB	001 REP	W	05LTCA18	06/14/05	06/28/05	06/28/05
B1D7M2						
ALKALINITY	002	W	05LAK026	06/07/05	06/20/05	06/20/05
NITRATE NITRITE	002	W	05LN3034	06/07/05	06/24/05	06/24/05
TOTAL ORGANIC CARBON	002	W	05LTC018	06/07/05	06/28/05	06/28/05
TOTAL INORGANIC CARB	002	W	05LTCA18	06/07/05	06/28/05	06/28/05
B1D7K0						
ALKALINITY	003	W	05LAK026	06/07/05	06/20/05	06/20/05
NITRATE NITRITE	003	W	05LN3034	06/07/05	06/24/05	06/24/05
TOTAL ORGANIC CARBON	003	W	05LTC018	06/07/05	06/28/05	06/28/05
TOTAL INORGANIC CARB	003	W	05LTCA18	06/07/05	06/28/05	06/28/05
B1D7K1						
ALKALINITY	004	W	05LAK026	06/09/05	06/20/05	06/20/05
NITRATE NITRITE	004	W	05LN3034	06/09/05	06/24/05	06/24/05
TOTAL ORGANIC CARBON	004	W	05LTC018	06/09/05	06/28/05	06/28/05
TOTAL INORGANIC CARB	004	W	05LTCA19	06/09/05	06/29/05	06/29/05
LAB QC:						
ALKALINITY	MB1	W	05LAK026	N/A	06/20/05	06/20/05

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD F04-032

DATE RECEIVED: 06/15/05 LVL LOT # :0506L758

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
ALKALINITY	MB1 BS	W	05LAK026	N/A	06/20/05	06/20/05
ALKALINITY	MB1 BSD	W	05LAK026	N/A	06/20/05	06/20/05
NITRATE NITRITE	MB1	W	05LN3034	N/A	06/24/05	06/24/05
NITRATE NITRITE	MB1 BS	W	05LN3034	N/A	06/24/05	06/24/05
TOTAL ORGANIC CARBON	MB1	W	05LTC018	N/A	06/28/05	06/28/05
TOTAL ORGANIC CARBON	MB1 BS	W	05LTC018	N/A	06/28/05	06/28/05
TOTAL INORGANIC CARB	MB1	W	05LTCA18	N/A	06/28/05	06/28/05
TOTAL INORGANIC CARB	MB1	W	05LTCA19	N/A	06/29/05	06/29/05

LIONVILLE LABORATORY INC.

Analytical Report

Client: TNU-HANFORD F04-032 ~~H3198~~ H3210 WE 10-14-05
LVL#: 0506L758

W.O.#: 11343-606-001-9999-00
Date Received: 06-15-05

INORGANIC NARRATIVE

1. This narrative covers the analyses of 4 water samples.

2. The samples were prepared and analyzed in accordance with the methods checked on the attached glossary.

   LvLI is NELAP accredited by the state of Pennsylvania and holds over 20 additional state accreditations. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

3. Sample holding times as required by the method and/or contract were met.

4. The results presented in this report are derived from samples that met LvLI's sample acceptance policy with the exception of Total Organic Carbon (TOC) and Total Inorganic Carbon (TIC) as noted on the Sample Receipt Checklist.

5. The method blanks were within the method criteria.

6. The Laboratory Control Samples (LCS) were within the laboratory control limits. The duplicate LCS for Alkalinity was within the 20% Relative Percent Difference (RPD) control limit.

7. The matrix spike recoveries for Nitrate Nitrite were within the 75-125% control limits.

8. The replicate analyses for Nitrate Nitrite, TOC and TIC were within the 20% RPD control limit however replicate analysis for Alkalinity was outside the control limit; Alkalinity replicate results were less than 10 times the reporting limit.

9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

7/16/05
Date

njp\i06-758

208 Welsh Pool Road • Exton, PA 19341- 1313 • (610) 280-3000 • Fax (610) 280-3041

Lionville Laboratory Incorporated PACKAGE H3210A

WET CHEMISTRY

METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	EPA /600	SW846	OTHER
Acidity	___ 305.1		
✓ Alkalinity ___Bicarbonate ___Carbonate	✓ 310.1		
BOD	___ 405.1		___ 5210B (b)
Ion Chromatography:			
___Bromide ___Chloride ___Fluoride	___ 300.0	___ 9056	
___Nitrate ___Nitrite ___Phosphate	___ 300.0	___ 9056	
___Sulfate ___Formate ___Acetate ___Oxalate	___ 300.0	___ 9056	
Chloride	___ 325.2	___ 9251	
Chorine, Residual	___ 330.5 (mod)		
Cyanide, Amenable to Chlorination	___ 335.2	___ 9010B	
Cyanide, Total	___ 335.2	___ 9010B ___ 9014	___ ILMO4.0 (e)
Cyanide, Weak Acid Dissociable		___	___ 412 (a) ___ 4500CN-I (b)
COD	___ 410.4(mod)		___ 5220C (b)
Color	___ 110.2		
Corrosivity by Coupon		___ 1110(mod)	
Chromium VI		___ 7196A	___ 3500Cr-D (b)
Fluoride	___ 340.2		___ 4500-FC
Hardness, Calcium	___ 215.2		
Hardness, Total	___ 130.2		
Iodide			___ ASTM D19P202 (1)
Surfactant	___ 425.1		
✓ Nitrate-Nitrite ___Nitrate ___Nitrite	✓ 353.2		
Ammonia	___ 350.3		
Total ___Kjeldahl ✓ Organic Nitrogen	✓ 351.3		
Total ✓ Organic ✓ Inorganic Carbon	✓ 415.1	___ 9060	
Oil & Grease	___ 413.1	___ 9070	
___ pH ___ pH; paper	___ 150.1	___ 9040B ___ 9041A	
Petroleum Hydrocarbons, Total Recoverable	___ 418.1		
Phenol	___ 420.1 ___ 420.2	___ 9065 ___ 9066	
___Ortho ___Total Phosphate	___ 365.2		___ 4500-P B ___ C
Salinity			___ 210A (a) ___ 2520 (b)
Settleable Solids	___ 160.5		
Sulfide	___ 376.1	___ 9030B/9034 (acid soluble)	
Reactive ___Cyanide ___Sulfide		___ Section 7.3 (__9014__9030B)	
Silica	___ 370.1		
Sulfite	___ 377.1		
Sulfate	___ 375.4	___ 9038	
Specific Conductance	___ 120.1	___ 9050A	
Specific Gravity			___ D5057-90 ___ 213E (a)
Synthetic Precipitation Leach	___ 1312		
Total ___Dissolved __Suspended ___Solids	160 ___.1 ___.2 ___.3		
Total Organic Halides	___ 450.1	___ 9020B	
Turbidity	___ 180.1		
Volatile Solids:			
__Total __Dissolved __Suspended	___ 160.4		
Other:		**Method:**	

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 07/06/05

CLIENT: TNU-HANFORD F04-032 LVL LOT #: 0506L758
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	B1D7M8	Alkalinity	1.0 u	MG/L	1.0	1.0
		Nitrate Nitrite	0.020u	MG/L	0.020	1.0
		Total Organic Carbon	1.0	MG/L	0.50	1.0
		Total Inorganic Carbon	0.50 u	MG/L	0.50	1.0
-002	B1D7M2	Alkalinity	106	MG/L	2.0	1.0
		Nitrate Nitrite	72.2	MG/L	2.0	100
		Total Organic Carbon	0.89	MG/L	0.50	1.0
		Total Inorganic Carbon	28.4	MG/L	0.50	1.0
-003	B1D7K0	Alkalinity	107	MG/L	2.0	1.0
		Nitrate Nitrite	71.1	MG/L	2.0	100
		Total Organic Carbon	0.95	MG/L	0.50	1.0
		Total Inorganic Carbon	28.5	MG/L	0.50	1.0
-004	B1D7K1	Alkalinity	128	MG/L	2.0	1.0
		Nitrate Nitrite	68.4	MG/L	2.0	100
		Total Organic Carbon	0.80	MG/L	0.50	1.0
		Total Inorganic Carbon	35.3	MG/L	5.0	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 07/06/05

CLIENT: TNU-HANFORD F04-032 LVL LOT #: 0506L758
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK10	05LAK026-MB1	Alkalinity	0.50 u	MG/L	0.50	1.0
BLANK10	05LN3034-MB1	Nitrate Nitrite	0.020u	MG/L	0.020	1.0
BLANK10	05LTC018-MB1	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
BLANK10	05LTCA18-MB1	Total Inorganic Carbon	0.50 u	MG/L	0.50	1.0
BLANK10	05LTCA19-MB1	Total Inorganic Carbon	0.50 u	MG/L	0.50	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 07/06/05

CLIENT: TNU-HANFORD F04-032 LVL LOT #: 0506L758

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-001	B1D7M8	Nitrate Nitrite	1.2	0.02u	1.0	117.0	2.0
		Total Organic Carbon	7.3	1.0	5.0	124.7	1.0
BLANK10	05LAK026-MB1	Alkalinity	98.4	0.50u	100	98.4	1.0
		Alkalinity MSD	97.4	0.50u	100	97.4	1.0
BLANK10	05LN3034-MB1	Nitrate Nitrite	0.53	0.02u	0.50	105.8	1.0
BLANK10	05LTC018-MB1	Total Organic Carbon	5.0	0.50u	5.0	100.7	1.0

Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 07/06/05

CLIENT: TNU-HANFORD F04-032 LVL LOT #: 0506L758
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKE#1 %RECOV	SPIKE#2 %RECOV	%DIFF
BLANK10	05LAK026-MB1	Alkalinity	98.4	97.4	1.1

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 07/06/05

CLIENT: TNU-HANFORD F04-032 LVL LOT #: 0506L758
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-001REP	B1D7M8	Alkalinity	1.0 u	1.1	66.7	1.0
		Nitrate Nitrite	0.02u	0.02u	NC	1.0
		Total Organic Carbon	1.0	1.0	1.2	1.0
		Total Inorganic Carbon	0.50u	0.50u	NC	1.0

PACKAGE H3210A

Lionville Laboratory Use Only

0506L758

Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

Client TRU-Hanford FOM-032

Est. Final Proj. Sampling Date

Project # 11343-6000-001-9999-00

Project Contact/Phone #

Lionville Laboratory Project Manager QS

QC Spec Del Std TAT 30 day

Date Rec'd 6-15-05 Date Due 7-15-05

		A	B	C	D
Refrigerator #		1	1	2	2
#/Type Container	Liquid	1AG	1AG	1P	1P
	Solid				
Volume	Liquid	125	125	500	250
	Solid				
Preservatives		H2SO4	-	H2SO4	-

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN

Lionville Laboratory Use Only: IOCT, ITIC, IMS2, IALKL

MATRIX CODES: S - Soil; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	IOCT	ITIC	IMS2	IALKL
001	BD7M8			W	6-14-05	0920	✓	✓	✓	✓
002	M2				6-7-05	1050	✓	✓	✓	✓
003	K0				1	1050	✓	✓	✓	✓
004	K1				6-9-05	1220	✓	✓	✓	✓

Special Instructions: Saf FOM-032

Run Matrix QC

DATE/REVISIONS:

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
[illegible]	[illegible] Smith	6-15-05	0945

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL REWRITTEN		"COMPOSITE WASTE"	

PACKAGE H3210A

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F04-032-161	PAGE 1 OF 1
COLLECTOR Alexander/Gent/Mahood	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 7N **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION 200-ZP-1, C4694	**PROJECT DESIGNATION** 200-ZP-1 Remedial Investigation Sampling and Analysis - Groundwater		**SAF NO.** F04-032	**AIR QUALITY** ☐
ICE CHEST NO. 27WS-114	**FIELD LOGBOOK NO.**	**COA** 119325ES10	**METHOD OF SHIPMENT** FEDERAL EXPRESS	
SHIPPED TO Lionville Laboratory Incorporated	**OFFSITE PROPERTY NO.** ~~N/A~~ ① 2W PTR 15730		**BILL OF LADING/AIR BILL NO.** ~~N/A~~ ① 2W PTR 15730 ① MAB 6/14/05	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Samples did not originate in radiological controlled area. No total activity associated with sample/samples.

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	H2SO4 to pH <2/Cool 4C	Cool 4C	None	HCl or H2SO4 to pH <2/Cool 4C	
TYPE OF CONTAINER	G/P	G/P	G	G	
NO. OF CONTAINER(S)	1	1	1	1	
VOLUME	500mL	250mL	125mL	125mL	
SAMPLE ANALYSIS	NO2/NO3 - 353.2;	Alkalinity - 310.1;	TIC - 415.1M;	TOC - 415.1;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1D7M8	WATER	6-14-05	09:20	1	1	1	1					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood / Richard O. Mahood	6/14/05 10:50	MO-026 Refrigerator No. 7	6/14/05 10:50
MO-026	6/14/05 1055	M.H. Bauchwitz M.G. Bauchwitz	6/14/05 1055
M.H. Bauchwitz M.G. Bauchwitz	6/14/05 1055	Fed Ex	
Fed Ex	6.15.05 0945		6.15.05 0945

SPECIAL INSTRUCTIONS

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**	
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**	

A-6003-618(03/03)

PACKAGE H3210A

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F04-032-153	PAGE 1 OF 1
COLLECTOR Alexander/Gent/Mahood	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ	**PRICE CODE** 7N **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION 200-ZP-1, C4694, I-2	**PROJECT DESIGNATION** 200-ZP-1 Remedial Investigation Sampling and Analysis - Groundwater		**SAF NO.** F04-032	**AIR QUALITY** ☐
ICE CHEST NO. SPAS-114	**FIELD LOGBOOK NO.**	**COA** 119325ES10	**METHOD OF SHIPMENT** FEDERAL EXPRESS	
SHIPPED TO Lionville Laboratory Incorporated	**OFFSITE PROPERTY NO.** ~~N/A~~ ① SGPTK 15730		**BILL OF LADING/AIR BILL NO.** ~~N/A~~ ① SGPTK 15730 ① MAB 6/14/05	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS Rad to to B1B3TN2

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	H2SO4 to pH <2/Cool 4C	Cool 4C	None	HCl or H2SO4 to pH <2/Cool 4C	
TYPE OF CONTAINER	G/P	G/P	G	G	
NO. OF CONTAINER(S)	1	1	1 RON 6/2/5	1 RON 6/2/5	
VOLUME	500mL	250mL	~~125mL~~ 250 mL	~~125mL~~ 250mL	
SAMPLE ANALYSIS	NO2/NO3 - 353.2;	Alkalinity - 310.1;	TIC - 415.1M;	TOC - 415.1;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B1D7M2	WATER	6-7-05	1050	✓	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.D. Mahood / Richard D. Mahood	6/7/05 15:50	MD-026 Refrigerator No. 3	6/7/05 15:50
MD-026 RDM	6/14/05 1035	M.T. Bachhuber / M.T. Bachhuber	6/14/05 1035
M.T. Bachhuber / M.T. Bachhuber	6/14/05 1035		
FedEx	6.15.05 0945	D. Downs	6.15.05 0945

SPECIAL INSTRUCTIONS

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(03/03)

PACKAGE H3210A

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F04-032-136	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	DATA TURNAROUND
Alexander/Gent/Mahood	TRENT, SJ	373-5869	TRENT, SJ	7N	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.	AIR QUALITY
200-ZP-1, C4694, I-2	200-ZP-1 Remedial Investigation Sampling and Analysis - Groundwater	F04-032	☐

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
~~SAMS~~ - 114		119325ES10	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Lionville Laboratory Incorporated	~~N/A~~ (1) Sea PTL 15730	~~N/A~~ (1) Sea PTL 15730 (1) MAB 6/14/05

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad to BIBTN

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	H2SO4 to pH <2/Cool 4C	Cool 4C	None	HCl or H2SO4 to pH <2/Cool 4C	
TYPE OF CONTAINER	G/P	G/P	G	G	
NO. OF CONTAINER(S)	1	1	1	1	
VOLUME	500mL	250mL	~~125~~mL 250	~~125~~mL 250	
SAMPLE ANALYSIS	NO2/NO3 - 353.2;	Alkalinity - 310.1;	TIC - 415.1M;	TOC - 415.1;	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1D7K0	WATER	6-7-05	10:50	✓	✓	✓	✓						

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.D. Mahood/Richard D Mahood	6/7/05 15:50	MO-026 Refrigerator No-1	6/7/05 15:50
MO-026 Refrigerator No-1	6/14/05 1035	M.A. Bachler/M.A. Bachler	6/14/05 1035
M.A. Bachler/M.A. Bachler	6/14/05 1035	Fed Ex	
Fed Ex	6.15.05 / 0945	[illegible]	6.15.05 / 0945

SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

PACKAGE H3210A

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F04-032-137	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7N	DATA TURNAROUND
Alexander/Gent/Mahood	TRENT, SJ	373-5869	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
200-ZP-1, C4694, I-3	200-ZP-1 Remedial Investigation Sampling and Analysis - Groundwater		F04-032		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
SDWS-114		119325ES10	FEDERAL EXPRESS		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Lionville Laboratory Incorporated	~~N/A~~ 05a PTR 15736		~~N/A~~ 05a PTR 15730 @MAB 6/14/05		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad to to ~~RHBTW2~~ BID7J7

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	H2SO4 to pH <2/Cool 4C	Cool 4C	None	HCl or H2SO4 to pH <2/Cool 4C
TYPE OF CONTAINER	G/P	G/P	G	G
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	500mL	250mL	125mL	125mL
SAMPLE ANALYSIS	NO2/NO3 - 353.2;	Alkalinity - 310.1;	TIC - 415.1M;	TOC - 415.1;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B1D7K1	WATER	6-9-05	12:20	✓	✓	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood/~~Richard O. Mahood~~	6-9-05 17:15	MO-026 Refrigerator No. 1	6-9-05 17:15
MO-026	6/14/05 1035	M.T. Bachler/M.G. Bachler	6/14/05 1035
M.T. Bachler/M.G. Bachler	6/14/05 1035	Fed Ex	
Fed Ex	6.15.05 0945	J.D. Smith	6.15.05 0945

SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

Lionville Laboratory Incorporated

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU Hanford **Date:** 6-15-05

Purchase Order / Project# / SAF# / SOW# / Release #: F04-032

LvLI Batch # : 0506L758 **Sample Custodian:** D Fisher

NOTE: EXPLAIN ALL DISCREPANCIES

1.	Samples Hand Delivered or Shipped	Carrier FedEx	Airbill# 7900 5264 4283	
2.	Custody seals on coolers or shipping container intact, signed and dated?	☑ Yes	☐ No	☐ No Seals Comments
3.	Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	
4.	All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible?	☑ Yes	☐ No	
5.	Samples received cooled or ambient?	Temp 2.7 °C		Cooler # SAWS-114
6.	Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7.	coc signed and dated?	☑ Yes	☐ No	
8.	Sample containers are intact?	☑ Yes	☐ No	
9.	All samples on coc received? All samples received on coc?	☑ Yes	☐ No	
10.	All sample label information matches coc?	☑ Yes	☐ No	
11.	Samples properly preserved?	☑ Yes	☐ No	
12.	Samples received within hold times? Short holds taken to wet lab?	☑ Yes	☐ No	
13.	VOA, TOC, TOX free of headspace?	☐ Yes	☑ No	☐ N/A headspace # 001-004 A's + B's
14.	QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15.	Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy)	☐ Yes	☑ No See #13	
16.	Project Manager contacted concerning discrepancies? name/date (or samples outside criteria)	☑ Yes	☐ No	☐ No Discrepancies

SR-002-B