

FAX COVER SHEET**CONFIDENTIALITY NOTICE**

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DATE: 12-23-02Lionville Laboratory, Incorporated

208 Welsh Pool Road
Lionville, PA 19341-1333
Phone: (610) 280-3000
Fax: (610) 280-3041

NO. PAGES: 7
(including cover sheet)

Date Received:

12-19-02

TO: Carl Hoffman
OF: NYSDEC
FAX #: 518-402-9577
FROM: Joe Melnic

RFW Batch Number(s):

0212L374

Project / SOW / COC Number

Lionville Laboratory Inc. has received the following group of samples. In order to ensure that samples are reported accurately, we would appreciate it if you could take a moment to verify that the information as logged on the attached chain-of-custody form is correct. Please review the sample IDs and the tests requested and notify your project manager immediately if you find any discrepancies. Information concerning the condition of your samples upon receipt is noted in the box on the chain-of-custody form in the lower right hand corner.

Thank you
Joe Melnic

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin—Water (ASP #91-7) | ☐ 67. Dioxin—Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FRECN 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☐ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 402 9564

REGION NO.:

0

CONTRACT LABORATORY:

LIONVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

12/18/02

MILITARY TIME:

9:40

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

SH101012

SDG NO.

121181

SAMPLE NO.

B91707

CHECK FOR MS/MD

- ☐ This sample

TYPE OF SAMPLE

- ☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW-HD7

B91707

Report via Category B, unless checked ☐Check if field duplicate ☐ Outfall NumberCheck if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin—Water (ASP #91-7) | ☐ 67. Dioxin—Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREIN 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☒ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 402 9564

REGION NO.:

0

CONTRACT LABORATORY:

LIONVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

2/18/02

MILITARY TIME:

11:05

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

5410102

SDG NO.

112118

SAMPLE NO.

B9117016

CHECK FOR MS/MD

☐ This sample

TYPE OF SAMPLE

☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW - HD 6 BEHIND HOME DEPOT

Report via Category B, unless checked ☐Check if field duplicate ☐ Outfall NumberCheck if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

B91706

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

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CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin-Water (ASP #91-7) | ☐ 67. Dioxin-Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREON 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☐ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 402 9564

REGION NO.:

0

CONTRACT LABORATORY:

LIONVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

12/18/02

MILITARY TIME:

12:10

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

5 H 10102

SDG NO.

121181

SAMPLE NO.

8911705

CHECK FOR MS/MD

- ☐ This sample

TYPE OF SAMPLE

- ☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW-HD 5

Report via Category B, unless checked ☐Check if field duplicate ☐ Outfall NumberCheck if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

11310101814

B91705

SEND THIS SHEET WITH SAMPLE TO CONTACT LAB



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

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CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin-Water (ASP #91-7) | ☐ 67. Dioxin-Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREON 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☐ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 402 9564

REGION NO.:

0

CONTRACT LABORATORY:

LIONVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

12/18/02

MILITARY TIME:

13:10

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

SH10102

SDG NO.

121181

SAMPLE NO.

B9117014

CHECK FOR MS/MD

☐ This sample

TYPE OF SAMPLE

☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW-HD4

BEHIND
HOME
DEPOTReport via Category B, unless checked ☐Check if field duplicate ☐ Outfall NumberCheck if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

1 | 3 | 0 | 0 | 8 | 4 |

B91704

CLIENT: *NYSDEC*Purchase Order/Project: *101 Green Acres Road 130084*DATE: *12-19-02*AF# / SOW# / Release #: *N/A*Laboratory SDG #: *02126374*

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

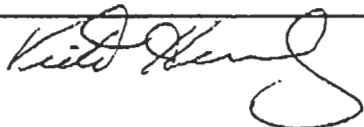
- | | | | | |
|--|---|--|---|--|
| 1. Custody seals on coolers or shipping container intact, signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 2. Outside of coolers or shipping containers are free from damage? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 3. Airbill # recorded? | ☒ Yes | ☐ No | ☐ N/A | ☐ 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) | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 5. Sample containers are intact? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 6. Custody seals on sample containers intact, signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 7. All samples on coc received? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 8. All sample label information matches coc? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?) | ☐ Yes | ☒ No | ☐ N/A | ☐ see Comment # |
| 10. Shipment meets LVL Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy) | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 11. Where applicable, bar code labels are affixed to coc? | ☐ Yes | ☐ No | ☒ N/A | ☐ see Comment # |
| 12. coc signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 13. coc will be faxed or emailed to client? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date) | ☐ Yes | ☐ No | ☒ N/A | ☐ see Comment # |

Cooler # / temp (°C) and Comments:

378 6°

Laboratory Sample Custodian:

Laboratory Project Manager:





9 January 2003

Mr. Larry Bailey
NYSDEC
625 Broadway
Albany, NY 12233-3502

Ref: Contract C004243
Sample Data Package - LVL Batch 0212L374
NYSDEC ID: SH002-1218-B91707, 06, 05, 04, TB

Dear Mr. Bailey:

Enclosed please find the data report (on CD) for 5 water samples received 19 December 2002 for analysis for VOAs.

Please do not hesitate to contact me at (610) 280-3029 with any questions or at any time we may be of service.

Very truly yours,

Lionville Laboratory Incorporated

Judith L. Stone
Senior Project Manager

Enclosure:

cc: Carl Hoffman (NYSDEC)



Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Lionville Laboratory Use Only

02122374



Client NYSDEC

Est. Final Proj. Sampling Date 12-19-02

Project # 101 Green Acres Road 130084

Project Contact/Phone # CARL HOFFMAN 518 402 9564

Lionville Laboratory Project Manager Judy STONE

QC CLP Del CLP TAT 30 days

Date Rec'd 12-19-02 Date Due 1-18-03

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum DL - Drum L - Liquids L - EPTCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix OC Chosen (✓)		Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only									
			MS	MSD				VOA	BNA	PCB	Herb	INORG		Metal			
		SH002-1218-															
	001	B91707			W	12/18	9:40	3									
	002	B91706			W	12/18	11:05	3									
	003	B91705			W	12/18	12:10	3									
	004	B91704			W	12/18	13:10	3									
	005	VOA TB			W	-	-	2									

DATE/REVISIONS:

1. TBLANKS added per P.M.

2. Case + SDG #'s added to Client Name

3. _____

4. _____

5. _____

6. _____

Special Instructions:

VOAs + FREON 113

3 bottle VIALS collected

for each sample

4X3 = 12 VIALS SENT

Relinquished by	Received by	Date	Time
CARL	WPS	12/18	14:00
HOFFMAN			

Relinquished by	Received by	Date	Time
WPS	WPS	12/18	09:05

Discrepancies Between Samples Labels and COC Record? Y or N (N)

NOTES:

17 F02 69R 22 1000 921 1

Lionville Laboratory Use Only

Samples were:

1) Shipped (Y) or (N)

Hand Delivered (Y) or (N)

Airbill # 22-12-18

2) Unbroken on Outer Package (Y) or (N)

3) Present on Sample (Y) or (N)

4) Unbroken on Sample (Y) or (N)

5) Received in Good Condition (Y) or (N)

6) Samples Properly Preserved (Y) or (N)

7) Received Within Holding Times (Y) or (N)

8) COC Record Present Upon Sample Rec't (Y) or (N)

9) Cooler Temp. (Y) or (N)



SEND THIS SHEET WITH SAMPLE TO CONTACT LAB
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin-Water (ASP #91-7) | ☐ 67. Dioxin-Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREON 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☐ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 402 9564

REGION NO.:

0

CONTRACT LABORATORY:

LIONVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

12/18/02

MILITARY TIME:

9:40

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

SH101012

SDG NO.

1121181

SAMPLE NO.

B9171017

CHECK FOR MS/MD

☐ This sample

TYPE OF SAMPLE

☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW-HD7

B91707

Report via Category B, unless checked ☐

Check if field duplicate ☐ Outfall Number

Check if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

| | | | |



SEND THIS SHEET WITH SAMPLE TO CONTACT LAB

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin-Water (ASP #91-7) | ☐ 67. Dioxin-Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREIN 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☒ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 702 9564

REGION NO.:

0

CONTRACT LABORATORY:

LIONVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

2/18/02

MILITARY TIME:

11:05

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

SH10102

SDG NO.

1121181

SAMPLE NO.

B9117106

CHECK FOR MS/MD☐ This sample**TYPE OF SAMPLE**☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW-HD 6

BEHIND
HOME
DEPOTReport via Category B, unless checked ☐Check if field duplicate ☐ Outfall NumberCheck if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

| | | | |

B91706



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin-Water (ASP #91-7) | ☐ 67. Dioxin-Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREON 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☐ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:CARL HOFFMAN**TELEPHONE NUMBER:**518 402 9564**REGION NO.:**0**CONTRACT LABORATORY:**LIONVILLE LAB**COUNTY:**NASSAU**SAMPLING DATE:**12/18/02**MILITARY TIME:**12:10**SAMPLE MATRIX:**

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.5410102**SDG NO.**1121181**SAMPLE NO.**69117105**CHECK FOR MS/MD**☐ This sample**TYPE OF SAMPLE**☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:MW-HD 5Report via Category B, unless checked ☐Check if field duplicate ☐ Outfall NumberCheck if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER11310101814B91705



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print Legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab personnel are expected to use caution when handling DEC samples, however, please use special caution when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials(s)

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

- | | | |
|---|--|---|
| ☐ 2. 13PP Metals | ☐ 3. Volatiles—(USEPA 624 GC/MS) | ☐ 6. Pesticides/PCBs (USEPA 608-GC) |
| ☐ 4. Acids Base/Neutrals (USEPA 624 GC/MS) | ☐ 5. Cyanide | ☐ 9. BOD |
| ☐ 7. Halogenated Volatiles (USEPA 601 GC) | ☐ 8. Aromatic Volatiles USEPA 602 GC) | ☐ 12. TSS |
| ☐ 10. pH | ☐ 11. COD | ☐ 15. Ammonia |
| ☐ 13. Settleable Solids | ☐ 14. TKN | ☐ 18. Reactive Phosphorus |
| ☐ 16. Nitrate/Nitrite | ☐ 17. Total Phosphorus | ☐ 21. Total Phenols |
| ☐ 19. Oil/Grease) | ☐ 20. TOC | ☐ 60. PCBs congener method (ASP 91-11) |
| ☐ 22. Other _____ | ☐ 59. PCBs at 0.065 ug/l | ☐ 64. Total Solids |
| | ☐ 62. CBOD | ☐ 65. Volatiles (USEPA 524.2 GC/MS) |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| ☐ 23 (ALL)—Water—Includes 24-28 | ☐ 29. (ALL)—Soil/Sediments—Includes 30-34 |
| ☐ 24 Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #95-2) | ☐ 30. (B/N/A)—Soil/Sediments—GC/MS (ASP #95-2) |
| ☒ 25 Volatile Organic Analysis VOA—Water—GC/MS (ASP #95-1) | ☐ 31. VOA—Soil/Sediments—GC/MS (ASP #95-1) |
| ☐ 26 Pesticides/PCBs—Water—GC/MS (ASP #95-3) | ☐ 32. Pesticides/PCBs—Soil/Sediments—GC (ASP #95-3) |
| ☐ 27 Metals—23 in Water | ☐ 33. Metals—23 in Soil/Sediments) |
| ☐ 28 Cyanide—Water | ☐ 34. Cyanide—Soil/Sediments) |
| ☐ 66 Dioxin-Water (ASP #91-7) | ☐ 67. Dioxin-Soil/Sediments (ASP #91-7) |
| ☒ 35 Other <u>FREON 113</u> | |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| ☐ 36. EP Toxicity | ☐ 37. EP Toxicity (Metals Only) | ☐ 38. Ignitability |
| ☐ 39. Corrosivity | ☐ 40. VOA—(USEPA 8260 GC/MS) | ☐ 41. BNA—(USEPA 8270 GC/MS) |
| ☐ 42. Pesticides/PCBs (USEPA 8081) | ☐ 43. TCLP | ☐ 44. TCLP (Metals Only) |
| ☐ 45. Reactivity | ☐ 46. Dioxin (USEPA 8280) | ☐ 47. Appendix IX |
| ☐ 48. Other _____ | ☐ 63 Percent Solids | ☐ 68. Metals—17 Hazardous |

MUNICIPAL SLUDGE

- ☐ 56. RS-01 ☐ 57. RS-02 ☐ 58. Other _____

COLLECTED BY:

CARL HOFFMAN

TELEPHONE NUMBER:

518 402 9564

REGION NO.:

0

CONTRACT LABORATORY:

LUNVILLE LAB

COUNTY:

NASSAU

SAMPLING DATE:

12/18/02

MILITARY TIME:

13:10

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other _____

CASE NO.

SHR102

SDG NO.

121181

SAMPLE NO.

B9117014

CHECK FOR MS/MD

- ☐ This sample

TYPE OF SAMPLE

- ☒ Grab ☐ Composite ☐ Term _____ hours

- ☐ Check if there will be more samples with this SDG sent in this calendar week.

SAMPLING POINT:

MW-HD4

BEHIND
HOME
DEPOT

- Report via Category B, unless checked ☐

- Check if field duplicate ☐ Outfall Number

- Check if sampling is part of inspection ☐

FLOW: _____ GPD _____ MGD

SPDES NUMBER/REGISTRY NUMBER

113101814

B91704

SAMPLE RECEIPT CHECKLIST

CLIENT: *NYSDEC*Purchase Order/Project: *101 GREEN ACRES ROAD 130084*DATE: *12-19-02*SAF# / SOW# / Release #: *N/A*

Laboratory SDG #:

0212C374

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

- | | | | | |
|--|---|--|---|--|
| 1. Custody seals on coolers or shipping container intact, signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 2. Outside of coolers or shipping containers are free from damage? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 3. Airbill # recorded? | ☒ Yes | ☐ No | ☐ N/A | ☐ 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) | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 5. Sample containers are intact? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 6. Custody seals on sample containers intact, signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 7. All samples on coc received? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 8. All sample label information matches coc? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?) | ☐ Yes | ☒ No | ☐ N/A | ☐ see Comment # |
| 10. Shipment meets LVL Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy) | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 11. Where applicable, bar code labels are affixed to coc? | ☐ Yes | ☐ No | ☒ N/A | ☐ see Comment # |
| 12. coc signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 13. coc will be faxed or emailed to client? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date) | ☐ Yes | ☐ No | ☒ N/A | ☐ see Comment # |

Cooler # / temp (°C) and Comments:

2378 6°

Laboratory Sample Custodian:

Kate Henry

Laboratory Project Manager:

GC/MS VOLATILES: COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME:	Lionville Laboratory, Inc.
CITY/STATE:	Lionville, PA
CASE/SDG NO.:	0212L374
CLIENT NAME:	NYSDDEC
WORK ORDER NO.:	01607-(20100)-9999-00
METHOD BASED ON:	EPA SOW OLM01.8 (SOW 3/90) / SW8240 / SW8260 / <u>NYSDDEC ASP</u> (circle one)

All documents in the Client's copy of the complete SDG file must be legible, clearly labeled, paginated, single-sided original documents; or of sufficient copy quality to be reproducible to fourth generation copies. (Purge file documents, e.g., original-copy chain-of-custody, etc. assembled per specific contract request only.)

CLIENT: NYSDDEC SDG No.: 0212L374		Page Nos		Check (initials/date)	
		From	To	Lab	Client
1	Cover Page (Lab Chron)	01	—	Jan	—
2	Table of Contents (Document Inventory Sheet)	02	—	1/6/02	—
3	Case Narrative	03	08	/	—
4	Shipping, Receiving, and Custody Records - o Lab Chain of Custody/Work Request - o Client Custody Reports/Packing Lists - o Airbills	09	11	/	—
5	Volatiles Sample QC/Data Summary - o Data Summary (LIMS Summary Report) - o System Monitoring Compound Summary (Form II VOA) - o MS/MSD Duplicate Summary (Form III VOA) - o Method Blank Summary (Form IV VOA) - o GC/MS Instrument Performance Check (BFB) (Form V VOA) - o Internal Standard Area and RT Summary (Form VIII VOA)	12	27	TR 1/21/03	—
6	Sample Data, for each Sample: - o Target Compound Results - Organic Analysis Data Sheet (Form I VOA) - o Tentatively Identified Compounds (TIC) (Form I VOA-TIC) - o Reconstructed total ion chromatograms (RIC)/Quantitation Reports - o Raw spectra and background-subtracted mass spectra of target compounds identified - o Mass spectra of all reported TICs with three best library matches	28	115	TR 1/21/03	—
7	Calibration Standard Data - Initial Calibration Data (Form VI VOA) - o RICs and Quan Reports for all Standards - Continuing Calibration Data (Form VII VOA)	116	183	TR 1/21/03	—

CLIENT: NYSDCL		Page Nos		Check (initials/date)	
SDG No.: 0012374		From	To	Lab	Client
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	o Internal Standard Area and RT Summary (Form VIII VOA)				
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	o Mass Listing				
	o Reconstructed total ion chromatograms (RIC)				
	Method Blank Data				
	o Target Compound Results (Form I VOA)				
	o Tentatively Identified Compounds (TIC) (Form I VOA-TIC)				
	o Reconstructed total ion chromatograms (RIC)/ Quantitation Reports				
	o Raw spectra and background-subtracted mass spectra of target compounds identified				
	o Mass spectra of all reported TICs with three best library matches				
	Blank Spike/Blank Spike Duplicate				
	o TCL Results (Form I VOA)				
	o RIC/Quant Report				
	Matrix Spike/Matrix Spike Duplicate				
	o TCL Results (Form I VOA)				
	o RIC/Quant Report				
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	o Analysis Standards				
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12	Other/Miscellaneous	248	251		
	o MDL /IDL Table (circle one)				

COMMENTS: _____

Checked by:
(Laboratory)

Signature

Printed Name/Title

Date

Checked by:
(Client)

Signature

Printed Name/Title

Date

Lionville Laboratory, Inc.
VOA ANALYTICAL DATA PACKAGE FOR
NYSDEC

RFW LOT # :0212L374

CLIENT ID	RFW #	MTX	PREP #	COLLECTN	DATE	REC	EXT/PREP	ANALYSIS
SH002-1218-B91707	001	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
SH002-1218-B91707	001 MS	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
SH002-1218-B91707	001 MSD	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
SH002-1218-B91706	002	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
SH002-1218-B91705	003	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
SH002-1218-B91704	004	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
SH002-1218-B91704	004 D1	W	03LVG001	12/18/02	12/19/02	N/A		01/02/03
VOA TB	005	W	02LVX687	12/18/02	12/19/02	N/A		12/20/02
LAB QC:								
VBLKCJ	MB1	W	02LVX687	N/A	N/A	N/A		12/20/02
VBLKCJ	MB1 BS	W	02LVX687	N/A	N/A	N/A		12/20/02
VBLKDI	MB1	W	03LVG001	N/A	N/A	N/A		01/02/03

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som\group\data\voa\toc-390.doc

002



Case Narrative



Client: NYSDEC
LVL #: 0212L374
ELAP #: 10752

W.O.#: 01667-601-001-9999-00
Date Received: 12-19-2002

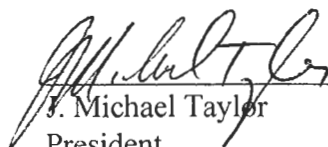
GC/MS VOLATILE

Five (5) water samples were collected on 12-18-2002.

The samples and their associated QC samples were analyzed according to criteria set forth in Lionville Laboratory OPs based on NYSDEC ASP (Rev.10-95) for TCL Volatile target compounds on 12-20-2002 and 01-02-2003.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from samples that met LvLI's sample acceptance policy.
2. Samples were analyzed within required holding time with the exception of sample SH002-1218-B91704 DL, which was analyzed outside of holding time. See item #4.
3. Non-target compounds were detected in the samples.
4. The target compound 1,1,2-Trichlorotrifluoroethane exceeded the calibration range in sample SH002-1218-B91704; consequently, sample was diluted 2-fold, analyzed on 01-02-2003 and reported. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
5. One (1) of thirty-three (33) surrogate recoveries was outside EPA QC limits. The initial analysis fulfills the reanalysis requirement of sample SH002-1218-B91704 DL.
6. All matrix spike recoveries were within EPA QC criteria.
7. All blank spike recoveries were within EPA QC limits.
8. The method blanks contained the common laboratory contaminant Methylene Chloride at levels less than 2.5x the CRQL. The method blank 02LVX678-MB1 also contained the target compound 1,2,4-Trichlorobenzene at a level less than the CRQL.
9. Internal standard area and retention time criteria were met.
10. The analyses were performed with the method enhancement of a 40°C heated purge to standardize the purge temperature and improve overall purging efficiency.
11. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


J. Michael Taylor
President
Lionville Laboratory Incorporated

1/6/03
Date

som\group\data\voa\nysdec-0212-374.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 251 pages.

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 0301001

Initiator: T. Keppel
 Date: 1-2-03
 Client: NYSDEC

Batch: 0212L374
 Samples: 004
 Method: SW846/MCAWW/CLP/

Parameter: Cr624C
 Matrix: Water
 Prep Batch: _____

1. Reason for SDR

a. COC Discrepancy ☐ Tech Profile Error ☐ Client Request ☐ Sampler Error on C-O-C
☐ Transcription Error ☐ Wrong Test Code ☐ Other _____

b. General Discrepancy

☐ Missing Sample/Extract ☐ Container Broken ☐ Wrong Sample Pulled ☐ Label ID's Illegible
☐ Hold Time Exceeded ☐ Insufficient Sample ☐ Preservation Wrong ☐ Received Past Hold
☐ Improper Bottle Type ☐ Not Amenable to Analysis

Note*: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)

Sample # 004 (SH002-1218-B91704) - Freon 113 was overcal @ 300ppb Sample was never diluted and rerun. Sample was collected on 12-18-02 and is now out of hold. Report as is or Rerun out of hold.

2. Known or Probable Causes(s)

3. Discussion and Proposed Action

Other Description:

☐ Re-log
☐ Entire Batch
☐ Following Samples: _____
☐ Re-leach
☐ Re-extract
☐ Re-digest
☐ Revise EDD
☐ Change Test Code to _____
☐ Place On/Take Off Hold (circle)

dilute + run

4. Project Manager Instructions...signature/date: _____

☐ Concur with Proposed Action
☐ Disagree with Proposed Action; See Instruction
☒ Include in Case Narrative
☐ Client Contacted:
☐ Date/Person _____
☐ Add
☐ Cancel

5. Final Action...signature/date: put [signature] 1/3/03 Other Explanation:

☐ Verified re-[log][leach][extract][digest][analysis] (circle)
☒ Included in Case Narrative
☒ Hard Copy COC Revised
☐ Electronic COC Revised
☐ EDD Corrections Completed

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route Distribution of Completed SDR
2 ☒ Initiator Keppel
☐ ☒ Lab General Manager: M. Taylor
1 ☒ Project Mgr: Stone/Johnson/Haslett
☐ ☒ Technical Mgr: Wesson/Daniels
☐ ☒ QA (file)
☐ ☐ Data Management: Feldman
☐ ☐ Sample Prep: Beegle/Kiger

Route Distribution of Completed SDR
☐ ☐ Metals: Beegle
☐ ☐ Inorganic: Perrone
☐ ☐ GC/LC: Kiger
☐ ☐ MS: Rychlak/Layman
☐ ☐ Log-in: Melnic
☐ ☐ Admin: Soos
☐ ☐ Other: _____

GLOSSARY OF VOA DATA

DATA QUALIFIERS

- U** = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J** = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D** = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I** = Interference.
- NQ** = Result qualitatively confirmed but not able to quantify.
- N** = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X** = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y** = Additional qualifiers used as required are explained in the case narrative.

GLOSSARY OF VOA DATA

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Suffix added to sample number to indicate that results are from a diluted analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

TECHNICAL FLAGS FOR MANUAL INTEGRATION

Manual quantitation modifications or integrations are performed routinely to improve the data quality for a variety of technical reasons. Documentation of these modifications should be clear and concise. The following "flags" are used to indicate the technical reasons for quantitation modifications:

- MP** - Missed Peak: manually added peak not found by automatic quantitation program.
- PA** - Peak Assignment: quantitation report was changed to reflect correct peak assignment.
- RI** - Routine Integration: routine integrations are performed for some analytes that are consistently integrated improperly by the automatic integration programs. Examples are the dichlorobenzene isomers on the VOA packed column and benzo(b)fluoranthene/benzo(k)fluoranthene which are poorly resolved on the BNA column.
- SP** - Split Peak: the automatic integration improperly split the peak; a manual integration was performed to get the correct area.
- CB** - Coelution/Background: peak was manually integrated to eliminate contribution from coeluting compounds, background signal, or other interference.
- PI** - Proper Integration: a peak with poor or inconsistent integration (e.g., excessive tail) was properly integrated manually.

Shipping, Receiving and Custody Records

[illegible]

LIONVILLE LABORATORY INCORPORATED SAMPLE RECEIPT CHECKLIST

CLIENT: *Nysdec*

Purchase Order/Project: *101 GREEN ACRES ROAD 130084*

DATE: *12-19-02*

AF# / SOW# / Release #: *N/A*

Laboratory SDG #:

02126374

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

- | | | | | |
|--|---|--|---|--|
| 1. Custody seals on coolers or shipping container intact, signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 2. Outside of coolers or shipping containers are free from damage? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 3. Airbill # recorded? | ☒ Yes | ☐ No | ☐ N/A | ☐ 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) | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 5. Sample containers are intact? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 6. Custody seals on sample containers intact, signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 7. All samples on coc received? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 8. All sample label information matches coc? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 9. Laboratory QC samples designated on coc? (QC stickers placed on bottles?) | ☐ Yes | ☒ No | ☐ N/A | ☐ see Comment # |
| 10. Shipment meets LVL Sample Acceptance Policy? (identify all bottles not within policy. See reverse side for policy) | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 11. Where applicable, bar code labels are affixed to coc? | ☐ Yes | ☐ No | ☒ N/A | ☐ see Comment # |
| 12. coc signed and dated? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 13. coc will be faxed or emailed to client? | ☒ Yes | ☐ No | ☐ N/A | ☐ see Comment # |
| 14. Project Manager/Client contacted concerning discrepancies? (name/date) | ☐ Yes | ☐ No | ☒ N/A | ☐ see Comment # |

Cooler # / temp (°C) and Comments:

2378 6°

Laboratory Sample Custodian:

[Signature]

Laboratory Project Manager:

Sample QC/Data Summary

Lionville Laboratory, Inc.

Volatiles by GC/MS

RFW Batch Number: 0212L374

Client: NYSDEC

Work Order: 01667601001

Report Date: 01/03/03 13:44

Page: 1a

Sample Information

Cust ID: SH002-1218-B 91707 SH002-1218-B 91707 SH002-1218-B 91707 SH002-1218-B 91705 SH002-1218-B 91704

RFW#: 001

Matrix: WATER

D.F.: 1.00

Units: ug/L

001 MS WATER 1.00 ug/L

001 MSD WATER 1.00 ug/L

002 WATER 1.00 ug/L

003 WATER 1.00 ug/L

004 WATER 1.00 ug/L

Surrogate Recovery	1,2-Dichloroethane-d4	107 %	99 %	106 %	100 %	107 %	102 %	107 %	97 %	108 %	102 %	109 %	95 %	99 %
Dichlorodifluoromethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	2 J
Chloromethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Vinyl Chloride		10 U	U	10 U	U	10 U	U	10 U	U	2 J	U	10 U	U	10 U
Bromomethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Chloroethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Trichlorofluoromethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
1,1-Dichloroethene		10 U	U	84 %	U	79 %	U	10 U	U	10 U	U	60	U	U
1,1,2-Trichlorotrifluoroethane		3 J	U	3 J	U	2 J	U	2 J	U	10 U	U	300 E	U	U
Acetone		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Carbon Disulfide		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Methyl Acetate		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Methylene Chloride		4 JB	U	7 BJ	U	12 B	U	6 JB	U	5 JB	U	4 BJ	U	U
Trans-1,2-dichloroethene		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
tert-Butyl Methyl Ether		10 U	U	10 U	U	10 U	U	10 U	U	4 J	U	10 U	U	10 U
1,1-Dichloroethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	26	U	U
Cis-1,2-dichloroethene		10 U	U	10 U	U	10 U	U	10 U	U	8 J	U	4 J	U	U
2-Butanone		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Chloroform		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
1,1,1-Trichloroethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Cyclohexane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Carbon Tetrachloride		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Benzene		10 U	U	97 %	U	99 %	U	10 U	U	10 U	U	10 U	U	10 U
1,2-Dichloroethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Trichloroethene		4 J	U	105 %	U	102 %	U	2 J	U	3 J	U	19	U	U
Methylcyclohexane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
1,2-Dichloropropane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
Bromodichloromethane		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
cis-1,3-Dichloropropene		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U
4-Methyl-2-pentanone		10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U	10 U

*= Outside of EPA CLP QC limits.

Cust ID: SH002-1218-B
91704
Sample Information
RFW#: 004 DL
Matrix: WATER
D.F.: 2.00
Units: ug/L
VOA TB
005
021VX687-MB1
021VX687-MB1
031VG001-MB1
VBLKJ BS
VBLKDI

Surrogate	Toluene-d8	93	%	110	%	102	%	99	%	104	%
Recovery	1,2-Dichloroethane-d4	82	*	99	%	93	%	94	%	89	%
		86	%	102	%	95	%	98	%	97	%
Dichlorodifluoromethane		20	U	10	U	10	U	10	U	10	U
Chloromethane		20	U	10	U	10	U	10	U	10	U
Vinyl Chloride		20	U	10	U	10	U	10	U	10	U
Bromomethane		20	U	10	U	10	U	10	U	10	U
Chloroethane		20	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane		20	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene		50	D	10	U	10	U	73	%	10	U
1,1,2-Trichlorotrifluoroethane		280	D	10	U	10	U	10	U	10	U
Acetone		7	JD	10	U	10	U	10	U	10	U
Carbon Disulfide		20	U	10	U	10	U	10	U	10	U
Methyl Acetate		20	U	10	U	10	U	10	U	10	U
Methylene Chloride		18	BJD	5	JB	10	J	13	B	11	
Trans-1,2-dichloroethene		20	U	10	U	10	U	10	U	10	U
tert-Butyl Methyl Ether		20	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane		19	JD	10	U	10	U	10	U	10	U
Cis-1,2-dichloroethene		2	JD	10	U	10	U	10	U	10	U
2-Butanone		20	U	10	U	10	U	10	U	10	U
Chloroform		20	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		20	JD	10	U	10	U	10	U	10	U
Cyclohexane		20	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride		20	U	10	U	10	U	10	U	10	U
Benzene		20	U	10	U	10	U	88	%	10	U
1,2-Dichloroethane		20	U	10	U	10	U	10	U	10	U
Trichloroethene		14	JD	10	U	10	U	96	%	10	U
Methylcyclohexane		20	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane		20	U	10	U	10	U	10	U	10	U
Bromodichloromethane		20	U	10	U	10	U	10	U	10	U
Cis-1,3-Dichloropropene		20	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone		20	U	10	U	10	U	10	U	10	U

* = Outside of EPA CLP QC limits.

Cust ID: SH002-1218-B

VOA TB

VBLKCJ

VBLKCJ BS

VBLKDI

91704

RFW#: 004 DL

005

02LVX687-MB1

02LVX687-MB1

03LVG001-MB1

Toluene	20	U	10	U	10	U	92	%	10	U
Trans-1,3-Dichloropropene	20	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	20	U	10	U	10	U	10	U	10	U
Tetrachloroethene	5	JD	10	U	10	U	10	U	10	U
2-Hexanone	20	U	10	U	10	U	10	U	10	U
Dibromochloromethane	20	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	20	U	10	U	10	U	10	U	10	U
Chlorobenzene	20	U	10	U	10	U	87	%	10	U
Ethylbenzene	20	U	10	U	10	U	10	U	10	U
Xylene (total)	20	U	10	U	10	U	10	U	10	U
Styrene	20	U	10	U	10	U	10	U	10	U
Bromoform	20	U	10	U	10	U	10	U	10	U
Isopropylbenzene	20	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	20	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	20	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	2	JD	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	20	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	20	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	44	D	2	JB	1	J	10	U	10	U

* = Outside of EPA CLP QC limits.

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Lionville Labs, Inc.Contract: 01667601001Lab Code: Lionvi

Case No.: _____

SAS No.: _____

SDG No.: _____

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	SH002-1218-B91707	107	99	97		0
02	SH002-1218-B91707MS	106	100	99		0
03	SH002-1218-B91707MSD	107	102	98		0
04	SH002-1218-B91706	107	97	97		0
05	SH002-1218-B91705	108	102	97		0
06	SH002-1218-B91704	109	95	99		0
07	SH002-1218-B91704DL	93	82*	86		1
08	VOA TB	110	99	102		0
09	VBLKCJ	102	93	95		0
10	VBLKCJ BS	99	94	98		0
11	VBLKDI	104	89	97		0

QC LIMITS

SMC1 (TOL) = Toluene-d8

(88-110)

SMC2 (BFB) = Bromofluorobenzene

(86-115)

SMC3 (DCE) = 1,2-Dichloroethane-d4

(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Lionville Labs, Inc.Contract: 1667-01-01Lab Code: Lionvi

Case No.: _____

SAS No.: _____

SDG No.: _____

MATRIX Spike - EPA Sample No.: SH002-1218-B9

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene_____	50.0	0	41.8	84	61 -145
Benzene_____	50.0	0	48.6	97	76 -127
Trichloroethene_____	50.0	3.91	56.3	105	71 -120
Toluene_____	50.0	0	52.4	105	76 -125
Chlorobenzene_____	50.0	0	49.9	100	75 -130

COMPOUND	SPIKE ADDED ug/L	MSD CONCENTRATION ug/L	MSD % REC #	% RPD #	QC LIMITS RPD REC
1,1-Dichloroethene_____	50.0	39.7	79	6	14 61 -145
Benzene_____	50.0	49.5	99	2	11 76 -127
Trichloroethene_____	50.0	54.9	102	2	14 71 -120
Toluene_____	50.0	52.5	105	0	13 76 -125
Chlorobenzene_____	50.0	50.5	101	1	13 75 -130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Lionville Labs, Inc.

Contract: 1667-01-01

Lab Code: Lionvi

Case No.: _____

SAS No.: _____

SDG No.: _____

MATRIX Spike - EPA Sample No.: VBLKCJ

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene_____	50.0	0	36.7	73	61 -145
Benzene_____	50.0	0	44.1	88	76 -127
Trichloroethene_____	50.0	0	47.9	96	71 -120
Toluene_____	50.0	0	46.0	92	76 -125
Chlorobenzene_____	50.0	0	43.7	87	75 -130

Column to be used to flag recovery value with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: Lionville Laborato Contract: 01667-601-001-9999-00

VBLCJ

Lab Code: LVLI Case No.: SAS No.: SDG No.: 12L374

Lab File ID: X122005 Lab Sample ID: 02LVX687-MB1

Date Analyzed: 12/20/2 Time Analyzed: 1122

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: 5970X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	VBLCJBS	02LVX687-MB1S	X122006	1153
02	SH002-1218-B91707	0212L374-001	X122008	1304
03	SH002-1218-B91707MS	0212L374-001S	X122009	1332
04	SH002-1218-B91707MS	0212L374-001T	X122010	1402
05	SH002-1218-B91706	0212L374-002	X122011	1432
06	SH002-1218-B91705	0212L374-003	X122012	1501
07	SH002-1218-B91704	0212L374-004	X122013	1532
08	VOA TB	0212L374-005	X122014	1601
09				
10				
11				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKDI

Lab Name: Lionville Laborato Contract: 01667-601-001-9999-00

Lab Code: LVLI Case No.: SAS No.: SDG No.: 12L374

Lab File ID: G010206 Lab Sample ID: 03LVG001-MB1

Date Analyzed: 01/02/3 Time Analyzed: 1200

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: 5973G

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	SH002-1218-B91704DL	0212L374-004	G010208	1304
02				
03				
04				
05				
06				
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lionville Laboratory Inc. Contract: 01667-601-001-9999-00
 Lab Code: LVLII Case No.: SAS No.: SDG No.: 12L374
 Lab File ID: X121101 BFB Injection Date: 12/11/2
 Instrument ID: 5970X BFB Injection Time: 0859
 GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.1
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	56.1
175	5.0 - 9.0% of mass 174	4.7 (8.4)1
176	95.0 - 100.9% of mass 174	56.1 (100.0)1
177	5.0 - 9.0% of mass 176	4.0 (7.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	VSTD200	X121102	12/11/2	0922
02	VSTD100	VSTD100	X121103	12/11/2	0952
03	VSTD50	VSTD50	X121104	12/11/2	1022
04	VSTD20	VSTD20	X121105	12/11/2	1052
05	VSTD10	VSTD10	X121106	12/11/2	1123
06					
07					
08					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lionville Laboratory Inc. Contract: 01667-601-001-9999-00

Lab Code: LVLI Case No.: SAS No.: SDG No.: 12L374

Lab File ID: X122001 BFB Injection Date: 12/20/2

Instrument ID: 5970X BFB Injection Time: 0854

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 100.0% of mass 95	59.2
175	5.0 - 9.0% of mass 174	5.1 (8.5)1
176	95.0 - 100.9% of mass 174	58.4 (98.7)1
177	5.0 - 9.0% of mass 176	4.8 (8.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	X122004	12/20/2	1042
02	VBLKCJ	02LVX687-MB1	X122005	12/20/2	1122
03	VBLKCJBS	02LVX687-MB1S	X122006	12/20/2	1153
04	SH002-1218-B91707	0212L374-001	X122008	12/20/2	1304
05	SH002-1218-B91707MS	0212L374-001S	X122009	12/20/2	1332
06	SH002-1218-B91707MS	0212L374-001T	X122010	12/20/2	1402
07	SH002-1218-B91706	0212L374-002	X122011	12/20/2	1432
08	SH002-1218-B91705	0212L374-003	X122012	12/20/2	1501
09	SH002-1218-B91704	0212L374-004	X122013	12/20/2	1532
10	VOA TB	0212L374-005	X122014	12/20/2	1601
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12					
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21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lionville Laboratory Inc. Contract: 01667-601-001-9999-00
 Lab Code: LVLI Case No.: SAS No.: SDG No.: 12L374
 Lab File ID: G112601 BFB Injection Date: 11/26/2
 Instrument ID: 5973G BFB Injection Time: 0744
 GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	91.6
175	5.0 - 9.0% of mass 174	6.3 (6.9)1
176	95.0 - 100.9% of mass 174	92.0 (100.4)1
177	5.0 - 9.0% of mass 176	5.6 (6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	VSTD200	G112605	11/26/2	1039
02	VSTD100	VSTD100	G112606	11/26/2	1111
03	VSTD50	VSTD50	G112607	11/26/2	1143
04	VSTD10	VSTD10	G112609	11/26/2	1248
05	VSTD20	VSTD20	G112612	11/26/2	1534
06					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lionville Laboratory Inc. Contract: 01667-601-001-9999-00
 Lab Code: LVLII Case No.: SAS No.: SDG No.: 12L374
 Lab File ID: G010201 BFB Injection Date: 01/02/3
 Instrument ID: 5973G BFB Injection Time: 0831
 GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	93.7
175	5.0 - 9.0% of mass 174	7.1 (7.5)1
176	95.0 - 100.9% of mass 174	89.4 (95.4)1
177	5.0 - 9.0% of mass 176	6.0 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	G010202	01/02/3	0856
02	VBLKDI	03LVG001-MB1	G010206	01/02/3	1200
03	SH002-1218-B91704DL	0212L374-004	G010208	01/02/3	1304
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lionville Laboratory Inc. Contract: 01667-601-001-9999-00

Lab Code: LVLI Case No.: SAS No.: SDG No.: 12L374

Lab File ID (Standard): X122004 Date Analyzed: 12/20/2

Instrument ID: 5970X Time Analyzed: 1042

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	314481	8.26	962688	10.28	823974	15.75
UPPER LIMIT	628962	8.76	1925376	10.78	1647948	16.25
LOWER LIMIT	157240	7.76	481344	9.78	411987	15.25
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKCJ	259277	8.26	774515	10.26	638569	15.73
02 VBLKCJBS	298481	8.26	912946	10.28	762853	15.75
03 SH002-1218-B91707	287111	8.24	876805	10.26	710672	15.73
04 SH002-1218-B91707MS	294490	8.27	911067	10.29	743891	15.74
05 SH002-1218-B91707MS	279233	8.26	830939	10.28	683414	15.73
06 SH002-1218-B91706	270252	8.24	838886	10.26	660386	15.73
07 SH002-1218-B91705	273386	8.27	810965	10.29	640841	15.75
08 SH002-1218-B91704	257040	8.24	770243	10.26	596236	15.73
09 VOA TB	253894	8.26	778702	10.28	602730	15.73
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lionville Laboratory Inc. Contract: 01667-601-001-9999-00
 Lab Code: LVLI Case No.: SAS No.: SDG No.: 12L374
 Lab File ID (Standard): G010202 Date Analyzed: 01/02/3
 Instrument ID: 5973G Time Analyzed: 0856
 GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	87910	10.79	525047	12.90	496544	17.35
UPPER LIMIT	175820	11.29	1050094	13.40	993088	17.85
LOWER LIMIT	43955	10.29	262524	12.40	248272	16.85
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKDI	67412	10.79	387817	12.90	348919	17.35
02 SH002-1218-B91704DL	89531	10.79	538548	12.90	480830	17.35
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22						

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.