DATA CHEM LABORATORIES
A SORENSON COMPANY

SDMS DocID 2241253

Submitted To: (b) (4) [redacted]
Tetra Tech EM Inc.
107 Chelsea Parkway
Boothwyn, PA 19061

Reference Data:	**Metals**
Client Sample No.:	L-11A through U12
P.O. No.:	Not Available
Sample Location:	Project Name:03-007-L05; Project No.: 07003
Sample Type:	Filter
Method Reference:	7300
DCL Set ID No.:	00-S-4984
DCL Sample ID No.:	00-29162 through 00-29169
Sample Receipt Date:	09/08/00
Preparation Date:	09/08/00
Analysis Date:	09/11/00

The samples were prepared and analyzed in accordance with NIOSH method 7300 using a Perkin Elmer 3000XL (ICP) purged spectrometer. Calibration verification was performed using a CCV (every 10 samples and at end) and an ICV (at beginning of run).

Results relate only to the items tested.

The results are in the enclosed data table.

This report shall not be reproduced except in full, without the written approval of the laboratory.

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

Results
µg/Filter

Client #	L-11A	O-11A	D11	U11	L-12A	
DCL #	00-29162	00-29163	00-29164	00-29165	00-29166	**LOD**
Arsenic	ND	ND	ND	ND	ND	**1.**
Chromium	ND	ND	ND	ND	ND	**1.**
Lead	ND	**2.**	ND	ND	ND	**1.**

ND indicates the value is below the limit of detection (LOD)

Results
µg/Filter

Client #	O-12A	D12	U12			
DCL #	00-29167	00-29168	00-29169	Lab Blank	QC-8913	**LOD**
Arsenic	ND	ND	ND	ND	103.	**1.**
Chromium	ND	ND	ND	ND	115.	**1.**
Lead	**2.**	ND	ND	ND	106.	**1.**

ND indicates the value is below the limit of detection (LOD)

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

Results
mg/m^3

Client #	L-11A	O-11A	D11	U11	L-12A
DCL #	00-29162	00-29163	00-29164	00-29165	00-29166
Volume (L)	1345.9	1435.5	1182.8	1350.0	1244.9
Arsenic	<0.0007	<0.0007	<0.0008	<0.0007	<0.0008
Chromium	<0.0007	<0.0007	<0.0008	<0.0007	<0.0008
Lead	<0.0007	**0.001**	<0.0008	<0.0007	<0.0008

Results
mg/m^3

Client #	O-12A	D12	U12		
DCL #	00-29167	00-29168	00-29169		
Volume (L)	1291.0	1353.2	1156.9		
Arsenic	<0.0007	<0.0007	<0.0008		
Chromium	<0.0007	<0.0007	<0.0008		
Lead	**0.002**	<0.0007	<0.0008		

(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

00-S-4984

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJ. NO.: Ø7ØØ3
PROJECT NAME: Ø3-ØØ7-LØ5

RUSH

SAMPLERS: (Signature) (b) (4) [redacted]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	As, Cr, Pb (N.25H 7300)						REMARKS	00-
L-11A	9-5	1600		X	Laborer	1	X						1,345.9 liters	29162
O-11A	9-5	1600		X	Operator	1	X						1,435.5 liters	29163
D11	9-5	1600		X	Downwind	1	X						1,182.8 liters	29164
U11	9-5	1600		X	Upwind	1	X						1,350.0 liters	29165
L-12A	9-6	1600		X	Laborer	1	X						1,244.9 liters	29166
O-12A	9-6	1600		X	Operator	1	X						1,291.0 liters	29167
D12	9-6	1600		X	Downwind	1	X						1,353.2 liters	29168
U12	9-6	1600		X	Upwind	1	X						1,156.9 liters	29169

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	9-7-00 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
	9/8/00 1055	(b) (4) [redacted]			

ORIGINAL

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ORIGINAL

TEST REPORT
Page 1 of 3
9/11/00

DATA CHEM LABORATORIES
A SORENSON COMPANY

Submitted To: (b) (4) [redacted]
Tetra Tech EM Inc.
107 Chelsea Parkway
Boothwyn, PA 19061

Reference Data:	**Metals**
Client Sample No.:	L-11A through U12
P.O. No.:	Not Available
Sample Location:	Project Name:03-007-L05; Project No.: 07003
Sample Type:	Filter
Method Reference:	7300
DCL Set ID No.:	00-S-4984
DCL Sample ID No.:	00-29162 through 00-29169
Sample Receipt Date:	09/08/00
Preparation Date:	09/08/00
Analysis Date:	09/11/00

The samples were prepared and analyzed in accordance with NIOSH method 7300 using a Perkin Elmer 3000XL (ICP) purged spectrometer. Calibration verification was performed using a CCV (every 10 samples and at end) and an ICV (at beginning of run).

Results relate only to the items tested.

The results are in the enclosed data table.

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(b) (4) [redacted]
Analyst

(b) (4) [redacted]
Reviewer

WEST COAST OFFICE
11 SANTA YOLANDA COURT
NOVATO, CALIFORNIA 94945
(800) 280-[illegible] FAX (415) 883-[illegible]

Results
µg/Filter

Client #	L-11A	O-11A	D11	U11	L-12A	
DCL #	00-29162	00-29163	00-29164	00-29165	00-29166	LOD
Arsenic	ND	ND	ND	ND	ND	1.
Chromium	ND	ND	ND	ND	ND	1.
Lead	ND	2.	ND	ND	ND	1.

ND indicates the value is below the limit of detection (LOD)

Results
µg/Filter

Client #	O-12A	D12	U12			
DCL #	00-29167	00-29168	00-29169	Lab Blank	QC-8913	LOD
Arsenic	ND	ND	ND	ND	103.	1.
Chromium	ND	ND	ND	ND	115.	1.
Lead	2.	ND	ND	ND	106.	1.

ND indicates the value is below the limit of detection (LOD)

(b) (4) [redacted]

Analyst

(b) (4) [redacted]

Reviewer

ORIGINAL

Results
mg/m^3

Client #	L-11A	O-11A	D11	U11	L-12A
DCL #	00-29162	00-29163	00-29164	00-29165	00-29166
Volume (L)	1345.9	1435.5	1182.8	1350.0	1244.9
Arsenic	<0.0007	<0.0007	<0.0008	<0.0007	<0.0008
Chromium	<0.0007	<0.0007	<0.0008	<0.0007	<0.0008
Lead	<0.0007	**0.001**	<0.0008	<0.0007	<0.0008

Results
mg/m^3

Client #	O-12A	D12	U12		
DCL #	00-29167	00-29168	00-29169		
Volume (L)	1291.0	1353.2	1156.9		
Arsenic	<0.0007	<0.0007	<0.0008		
Chromium	<0.0007	<0.0007	<0.0008		
Lead	**0.002**	<0.0007	<0.0008		

(b) (4) [redacted]

Analyst

(b) (4) [redacted]

Reviewer

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

OO-S-4984

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 8th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJ. NO: Ø7ØØ3
PROJECT NAME: Ø3-ØØ7-LØ5 RUSH
SAMPLERS (Signature): (b) (4) [redacted]

STA. NO	DATE	TIME	COMP	GRAB	STATION LOCATION	NO OF CONTAINERS	As Cr Pb (N.S.H 7300)						REMARKS	OO-
L-11A	9-5	1600		X	Laborer	1	X						1,345.9 liters	291162
O-11A	9-5	1600		X	Operator	1	X						1,435.5 liters	291163
D11	9-5	1600		X	Downwind	1	X						1,182.8 liters	291164
U11	9-5	1600		X	Upwind	1	X						1,350.0 liters	291165
L-12A	9-6	1600		X	Laborer	1	X						1,244.9 liters	291166
O-12A	9-6	1600		X	Operator	1	X						1,291.0 liters	291167
D12	9-6	1600		X	Downwind	1	X						1,353.2 liters	291168
U12	9-6	1600		X	Upwind	1	X						1,156.9 liters	291169

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	9-7-00 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by:	Date / Time	Remarks	
	9/8/00 1055	(b) (4) [redacted]			

Distribution: Original Accompanies Shipment. Copy to Coordinator Field Files

ORIGINAL

Air Sampling Data Sheet

TWA

PDM# 5824 0.12

Date: 9-5-00

Sample ID No.: L-11A

Time:

Pump No.: 13839

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2712 lpm	2753 lpm	2759 lpm	2741 lpm	
Post-Cal	2727 lpm	2729 lpm	2726 lpm	2727 lpm	
Pre-Post					2.734 lpm (V)

Sample Start Time: 0723

Total Time Sampled: 493 minutes **(TIME)**

Sample Stop Time: 1536

Volume Calculations

493 **(TIME)** x 2.73 **(V)** = 1345.9 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

TWA

PDM # 6311 0.04

Date: ~~0717~~ 9-5-00

Sample ID No.: O-11A

Time:

Pump No.: 13843

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

* Requires Support Pad

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2886 lpm	2877 lpm	2931 lpm	2.898 lpm	
Post-Cal	2.916 lpm	2.902 lpm	2.897 lpm	2.905 lpm	
Pre-Post					2.901 lpm (V)

Sample Start Time: 6725

Sample Stop Time: 1540

Total Time Sampled: 495 minutes (TIME)

Volume Calculations

495 (TIME) x 2.90 (V) = 1435.5 liters (VOLUME SAMPLED)

Air Sampling Data Sheet

ORIGINAL

PDM 6327 1.79

Date: 9-5-00

Sample ID No.: D11

Time:

Pump No.: 13842

Site Name: 12th St. Landfill

Pump Type

☐ DuPont Alpha 1

☒ Gillian HFS-113

Particulate Collection Devices

☒ 37mm Polystyrene 3-piece Filter Cassette

☐ 25mm Polystyrene 3-piece Filter Cassette

☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette

☐ Cyclone

☐ Cascade

Particulate Collection Media

☐ Cellulose*

☒ MCE (.8 µm)*

☐ MCE (.45 µm)*

☐ MCE (1.2 µm)*

☐ PVC (.8 µm)*

☐ PVC (.45 µm)*

☐ PVC (5.0 µm)*

☐ PTFE (.8 µm)*

☐ PTFE (.45 µm)*

☐ PTFE (.5 µm)*

☐ PTFE (1.0 µm)*

☐ PTFE (2.0 µm)*

☐ PTFE (5.0 µm)*

☐ Glass Fiber (1.0 µm)

☐ VAC (.8 µm)

☐ Silver membrane (.45 µm)

☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

☐ Charcoal Sorbent Tube

☐ Chromosorb Sorbent Tube

☐ Porapak-T Sorbent Tube

☐ Cryogenic Trap

☐ Tenax Sorbent Tube

☐ Anasorb Sorbent Tube

☐ Hopcalite Sorbent Tube

☐ Impinger

☐ XAD Sorbent Tube

☐ Silica Gel Sorbent Tube

☐ Tedlar Bag

☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.460 lpm	2.461 lpm	2.463 lpm	2.461 lpm	
Post-Cal	2.54 lpm	2.516 lpm	2.511 lpm	2.514 lpm	
Pre-Post					2.49 lpm (V)

Sample Start Time: 744

Total Time Sampled: 475 minutes **(TIME)**

Sample Stop Time: 1539

Volume Calculations

475 **(TIME)** x 2.49 **(V)** = 1182.8 liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

ORIGINAL

Date: 9-5-00 **Sample ID No.:** U11

Time: **Pump No.:** 13841

Site Name: 12th St. Landfill

Pump Type

☐ DuPont Alpha 1 ☒ Gillian HFS-113

Particulate Collection Devices

☒ 37mm Polystyrene 3-piece Filter Cassette
☐ 25mm Polystyrene 3-piece Filter Cassette
☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
☐ Cyclone
☐ Cascade

Particulate Collection Media

☐ Cellulose*
☒ MCE (.8 µm)*
☐ MCE (.45 µm)*
☐ MCE (1.2 µm)*
☐ PVC (.8 µm)*
☐ PVC (.45 µm)*
☐ PVC (5.0 µm)*
☐ PTFE (.8 µm)*
☐ PTFE (.45 µm)*
☐ PTFE (.5 µm)*
☐ PTFE (1.0 µm)*
☐ PTFE (2.0 µm)*
☐ PTFE (5.0 µm)*
☐ Glass Fiber (1.0 µm)
☐ VAC (.8 µm)
☐ Silver membrane (.45 µm)
☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

☐ Charcoal Sorbent Tube
☐ Chromosorb Sorbent Tube
☐ Porapak-T Sorbent Tube
☐ Cryogenic Trap
☐ Tenax Sorbent Tube
☐ Anasorb Sorbent Tube
☐ Hopcalite Sorbent Tube
☐ Impinger
☐ XAD Sorbent Tube
☐ Silica Gel Sorbent Tube
☐ Tedlar Bag
☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2852 lpm	2850 lpm	2855 lpm	2.852 lpm	
Post-Cal	2874 lpm	2872 lpm	2878 lpm	2.875 lpm	
Pre-Post					2.86 lpm (V)

Sample Start Time: 743 **Sample Stop Time:** 1535

Total Time Sampled: 472 minutes **(TIME)**

Volume Calculations

472 **(TIME)** x 2.86 **(V)** = 1,350 liters **(VOLUME SAMPLED)**

ORIGINAL

Air Sampling Data Sheet

TWA

Date: 9-6

Sample ID No.: 6327 0.01 L12A

Time:

Pump No.: 13839

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.762 lpm	2.712 lpm	2.744 lpm	2.739 lpm	
Post-Cal	2.722 lpm	2.720 lpm	2.720 lpm	2.721 lpm	
Pre-Post					2.730 lpm (V)

Sample Start Time: 0753

Sample Stop Time: 1529

Total Time Sampled: 456 minutes (TIME)

Volume Calculations

456 (TIME) x 2.73 (V) = 1244.9 liters (VOLUME SAMPLED)

Air Sampling Data Sheet

TWA

6311 ORIGINAL 0.05

Date: 9-6-00

Sample ID No.: 0-12A

Time:

Pump No.: 13841

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
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*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
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- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2863 lpm	2822 lpm	2822 lpm	2836 lpm	
Post-Cal	2836 lpm	2845 lpm	~~28~~ 2798 lpm	2.826 lpm	
Pre-Post					2.831 lpm (V)

Sample Start Time: 0754

Sample Stop Time: 1530

Total Time Sampled: 456 minutes **(TIME)**

Volume Calculations

456 **(TIME)** x 2.831 **(V)** = 1291 liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

ORIGINAL

Date: 9-6-00 **Sample ID No.:** D12

Time: **Pump No.:** 13843

Site Name: 12th St. Landfill

Pump Type

☐ DuPont Alpha 1 ☒ Gillian HFS-113

Particulate Collection Devices

☒ 37mm Polystyrene 3-piece Filter Cassette
☐ 25mm Polystyrene 3-piece Filter Cassette
☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
☐ Cyclone
☐ Cascade

Particulate Collection Media

☐ Cellulose*
☒ MCE (.8 µm)*
☐ MCE (.45 µm)*
☐ MCE (1.2 µm)*
☐ PVC (.8 µm)*
☐ PVC (.45 µm)*
☐ PVC (5.0 µm)*
☐ PTFE (.8 µm)*
☐ PTFE (.45 µm)*
☐ PTFE (.5 µm)*
☐ PTFE (1.0 µm)*
☐ PTFE (2.0 µm)*
☐ PTFE (5.0 µm)*
☐ Glass Fiber (1.0 µm)
☐ VAC (.8 µm)
☐ Silver membrane (.45 µm)
☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

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☐ Porapak-T Sorbent Tube
☐ Cryogenic Trap
☐ Tenax Sorbent Tube
☐ Anasorb Sorbent Tube
☐ Hopcalite Sorbent Tube
☐ Impinger
☐ XAD Sorbent Tube
☐ Silica Gel Sorbent Tube
☐ Tedlar Bag
☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2.928 lpm	2927 lpm	2876 lpm	2910 lpm	
Post-Cal	2.904 lpm	2.882 lpm	2.926 lpm	2.904 lpm	
Pre-Post					2.907 lpm (V)

Sample Start Time: 0752 **Sample Stop Time:** 1533

Total Time Sampled: 465 minutes **(TIME)**

Volume Calculations

465 **(TIME)** x 2.91 **(V)** = 1353.2 liters **(VOLUME SAMPLED)**

Air Sampling Data Sheet

ORIGINAL

#5824 0

Date: 9-6-00

Sample ID No.: 1412

Time:

Pump No.: 13842

Site Name: 12th St. Landfill

Pump Type

- ☐ DuPont Alpha 1
- ☒ Gillian HFS-113

Particulate Collection Devices

- ☒ 37mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Polystyrene 3-piece Filter Cassette
- ☐ 25mm Carbon filled black polypropylene w/cowl Filter Cassette
- ☐ Cyclone
- ☐ Cascade

Particulate Collection Media

- ☐ Cellulose*
- ☒ MCE (.8 µm)*
- ☐ MCE (.45 µm)*
- ☐ MCE (1.2 µm)*
- ☐ PVC (.8 µm)*
- ☐ PVC (.45 µm)*
- ☐ PVC (5.0 µm)*
- ☐ PTFE (.8 µm)*
- ☐ PTFE (.45 µm)*
- ☐ PTFE (.5 µm)*
- ☐ PTFE (1.0 µm)*
- ☐ PTFE (2.0 µm)*
- ☐ PTFE (5.0 µm)*
- ☐ Glass Fiber (1.0 µm)
- ☐ VAC (.8 µm)
- ☐ Silver membrane (.45 µm)
- ☐ Silver membrane (.8 µm)

*** Requires Support Pad**

Gas / Vapor Collection Devices

- ☐ Charcoal Sorbent Tube
- ☐ Chromosorb Sorbent Tube
- ☐ Porapak-T Sorbent Tube
- ☐ Cryogenic Trap
- ☐ Tenax Sorbent Tube
- ☐ Anasorb Sorbent Tube
- ☐ Hopcalite Sorbent Tube
- ☐ Impinger
- ☐ XAD Sorbent Tube
- ☐ Silica Gel Sorbent Tube
- ☐ Tedlar Bag
- ☐ PUF

Calibration Data

	Run # 1	Run # 2	Run # 3	Average	Pre-Post Avg.
Pre-Cal	2480 lpm	2482 lpm	2481 lpm	2481 lpm	
Post-Cal	2532 lpm	2538 lpm	2583 lpm	2551 lpm	
Pre-Post					2.515 lpm (V)

Sample Start Time: 0750

Sample Stop Time: 1530

Total Time Sampled: 460 minutes **(TIME)**

Volume Calculations

460 **(TIME)** x 2.515 **(V)** = 1156.9 liters **(VOLUME SAMPLED)**

FedEx USA Airbill FedEx Tracking Number 8221 4879 2530

Form I.D. No. 0215 ORIGINAL Sender's Copy

1 From *Please print and press hard.*

Date 9-7-00 Sender's FedEx Account Number 2551-4203-8

Sender's Name (b) (4) [redacted] Phone (610) 485-6410

Company TETRA TECH EM INC

Address 107 CHELSEA PKWY

Dept./Floor/Suite/Room

City MARCUS HOOK State PA ZIP 19061

2 Your Internal Billing Reference First 24 characters will appear on invoice. G9Ø03 1R ØØØ7 ØØ3

3 To Recipient's Name (b) (4) [redacted] Phone (513) 733-5336

Company DATACHEM

Address 4388 Glendale-Milford Rd.

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Cincinnati State OH ZIP 45242

PLEASE STICK FEDEX USA AIRBILL HERE

See back for application instructions.

Questions? Call 1·800·Go·FedEx® (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0149302180

4a Express Package Service — ***Packages up to 150 lbs.*** Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — ***Packages over 150 lbs.*** Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **SUNDAY Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday at FedEx Location** — Not available with FedEx First Overnight
- [ ] **HOLD Saturday at FedEx Location** — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment ***Bill to:*** Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. Credit Card No. 1822-3292-0 Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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