First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

October 30, 2007

Ms. Lisa Graczyk
DYNAMAC CORPORATION
WESTON SOLUTIONS, INC.
20 N. Wacker Drive Suite 1210
Chicago, IL 60606-2901

Dear Ms. Lisa Graczyk:

The following data package includes the supporting quality control information for the following referenced project.

Analyses are NELAC accredited and were performed in accordance with current IL ELAP/NELAP requirements unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 001767: effective 06/11/07 through 02/28/08..

Project: **05-PC-10/16/07-0009**
First Environmental File: **7-4600**
Date: **October 17, 2007**

BTEX Organic Compounds

All analyses were performed within established holding times, and all quality control criteria, as outlined in the methods, have been met except as noted here or noted on the submitted QC forms.

Polynuclear Aromatic Hydrocarbons

All analyses were performed within established holding times, and all quality control criteria, as outlined in the methods, have been met except as noted here or noted on the submitted QC forms.

MS/MSD: The MS/MSD analysis for this sample set had % RPD values and internal standard recoveries outside control limits. Therefore, summary results for the Laboratory Control Spike (LCS) and Duplicate (LCSD) have been included in this package. All recovery values for the LCS and LCSD were within control limits.

Reviewed By: Lorrie Franklin
Lorrie Franklin (QAO)

Date: 10/30/07

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Case Narrative

DYNAMAC CORPORATION

Project ID: **05-PC-10/16/07-0009**

First Environmental File ID: **7-4600**

Date Received: **October 17, 2007**

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

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BTEX Organic Compounds QC Summary

DYNAMAC CORPORATION

05-PC-10/16/07-0009

First Environmental File ID: 7-4600

Date Received: 10/17/07

Sample List for Group: VOA_Oct_29_2007

Printing Date Oct-29-2007

Lab File ID	EPA SAMPLE NO.	Lab Sample ID	Date Acq.		Date Rec.	Date Due
H73146.D	VTUN	VTUN01	10/17/2007	8:27	10/17/2007	10/18/2007
H73149.D	VSTD	VSTD050	10/17/2007	9:18	10/17/2007	10/18/2007
H73153.D	VBLKS	VBLKS03	10/17/2007	10:27	10/17/2007	10/18/2007
H73171.D	PC-S-01-10160	74600001	10/17/2007	15:34	10/17/2007	10/18/2007
H73180.D	74568002	74568002	10/17/2007	18:06	10/17/2007	10/18/2007
H73181.D	74568002MS	74568002MS	10/17/2007	18:23	10/17/2007	10/18/2007
H73182.D	74568002MSD	74568002MSD	10/17/2007	18:40	10/17/2007	10/18/2007

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBLKS	99	96	93	0
02	PC-S-01-10160	108	95	91	0
03	74568002	87	99	92	0
04	74568002MS	105	97	101	0
05	74568002MSD	94	100	101	0

			QC LIMITS
SMC1	=	Dibromofluoromethane	(83-118)
SMC2	=	d8-Toluene	(79-123)
SMC3	=	4-Bromofluorobenzene	(79-112)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Matrix Spike - EPA Sample No. 74568002 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0.0	49	98	48 - 143
Benzene	50	0.0	48	96	65 - 130
Trichloroethene	50	0.0	49	98	66 - 125
Toluene	50	0.0	48	96	65 - 132
Chlorobenzene	50	0.0	48	96	75 - 118

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	39	78	23 *	22	48 - 143
Benzene	50	38	76	23 *	21	65 - 130
Trichloroethene	50	38	76	25 *	24	66 - 125
Toluene	50	40	80	18	21	65 - 132
Chlorobenzene	50	39	78	21	21	75 - 118

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

* Values outside of QC limits

RPD: 3 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

Spike Recovery and RPD Summary Report - SOIL

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Thu Oct 25 09:18:03 2007
Response via : Initial Calibration

Non-Spiked Sample: H73153.D

	Spike Sample	Spike Duplicate Sample
File ID :	H73151.D	H73152.D
Sample :	LCS_SOIL 50uL #10868/50mL	LCS_SOIL 50uL #10868/50
Acq Time:	17 Oct 2007 9:53 am	17 Oct 2007 10:10 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	51	47	101	95	7	22	48-143
Benzene	0.1	50	50	48	99	96	4	21	65-130
Trichloroethene	0.2	50	51	48	102	96	6	24	66-125
Toluene	0.2	50	50	49	100	97	3	21	65-132
Chlorobenzene	0.1	50	51	49	102	99	3	21	75-118

- Fails Limit Check

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Lab File ID: H73153.D Lab Sample ID: VBLKS03

Date Analyzed: 10/17/2007 Time Analyzed: 10:27

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

Instrument ID: "H"

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PC-S-01-101607	74600001	H73171.D	15:34
02	74568002	74568002	H73180.D	18:06
03	74568002MS	74568002MS	H73181.D	18:23
04	74568002MSD	74568002MSD	H73182.D	18:40

COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLKS03

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H73153.D

Level: (low/med) LOW Date Received: 10/17/2007

% Moisture: not dec. 0 Date Analyzed: 10/17/2007

GC Column: ZB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	100	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	20	U
75-15-0	Carbon disulfide	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
156-59-4	cis-1,2-Dichloroethene	5	U
1634-04-4	Methyl-t-butyl ether (MTBE)	5	U
110-54-3	n-Hexane	5	U
108-05-4	Vinyl Acetate	10	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone (MEK)	100	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
142-82-5	n-Heptane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethyl benzene	5	U
108-38-3	m&p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKS

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLKS03

Sample wt/vol: 5.0 (g/ml) G Lab File ID: H73153.D

Level: (low/med) LOW Date Received: 10/17/2007

% Moisture: not dec. 0 Date Analyzed: 10/17/2007

GC Column: ZB-624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
98-82-8	Isopropylbenzene (cumene)	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

Quantitation Report (QT Reviewed)

Data File : C:\DATA\2007\0710\071017\H73153.D Vial: 7
Acq On : 17 Oct 2007 10:27 am Operator: BECKY
Sample : VBLKS03 Inst : VOA_H
Misc : 5.0mL HP&T, 1.0uL #10952 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 29 16:13 2007 Quant Results File: H8260B1.RES

Quant Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Fri Sep 28 11:36:56 2007
Response via : Initial Calibration
DataAcq Meth : H8260B1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	3.29	168	754800	50.00	ug/L	0.01
36) 1,4-Difluorobenzene	3.79	114	1218745	50.00	ug/L	0.01
54) d5-Chlorobenzene	5.97	117	846105	50.00	ug/L	0.01
70) d4-1,4-Dichlorobenzene	7.95	152	211362	50.00	ug/L	0.01

System Monitoring Compounds

31) Dibromofluoromethane	3.31	111	351204	49.28	ug/L	0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.56%			
52) d8-Toluene	4.83	98	1276734	48.12	ug/L	0.01
Spiked Amount 50.000	Range 79 - 123		Recovery = 96.24%			
68) 4-Bromofluorobenzene	6.94	95	348478	46.26	ug/L	0.01
Spiked Amount 50.000	Range 79 - 112		Recovery = 92.52%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

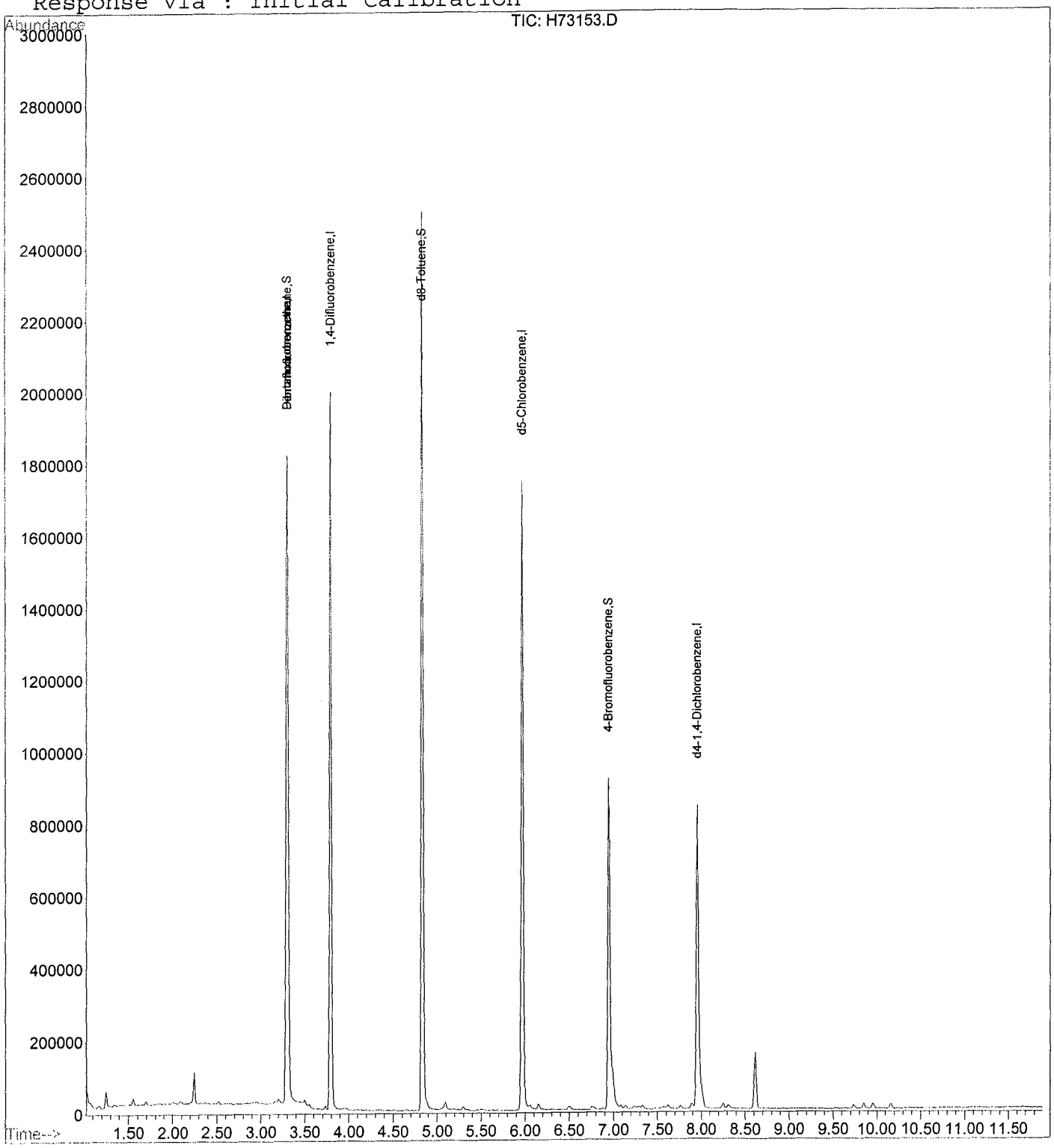
Quantitation Report

Data File : C:\DATA\2007\0710\071017\H73153.D
Acq On : 17 Oct 2007 10:27 am
Sample : VBLKS03
Misc : 5.0mL HP&T, 1.0uL #10952
MS Integration Params: rteint.p
Quant Time: Oct 29 16:13 2007

Vial: 7
Operator: BECKY
Inst : VOA_H
Multiplr: 1.00

Quant Results File: H8260B1.RES

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Thu Oct 25 09:18:03 2007
Response via : Initial Calibration



5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: _____ Case No.: 05-PC-10 SAS No.: _____ SDG No.: _____

Lab File ID: H73146.D BFB Injection Date: 10/17/2007

Instrument ID: "H" BFB Injection Time: 8:27

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.1
75	30.0 - 66.0% of mass 95	48.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	62.7
175	4.0 - 9.0% of mass 174	5.2 (8.3)1
176	93.0 - 101.0% of mass 174	62.3 (99.3)1
177	5.0 - 9.0% of mass 176	4.4 (7.1)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	VSTD	VSTD050	H73149.D	10/17/2007	9:18
02	VBLKS	VBLKS03	H73153.D	10/17/2007	10:27
03	PC-S-01-101607	74600001	H73171.D	10/17/2007	15:34
04	74568002	74568002	H73180.D	10/17/2007	18:06
05	74568002MS	74568002MS	H73181.D	10/17/2007	18:23
06	74568002MSD	74568002MSD	H73182.D	10/17/2007	18:40

FORM VI

Response Factor Report VOA_H

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Fri Sep 28 11:36:56 2007
Response via : Initial Calibration

Calibration Files
5 =H72431.D 10 =H72430.D 20 =H72429.D
50 =H72428.D 100 =H72427.D 200 =H72426.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluoromet	0.499	0.417	0.479	0.548	0.531	0.559	0.506	10.39
3)	P	Chloromethane	0.943	0.885	0.917	1.003	0.949	1.041	0.956	5.96
4)	C	Vinyl Chloride	0.784	0.706	0.761	0.861	0.851	0.868	0.805	8.13
5)	T	Bromomethane	0.433	0.479	0.388	0.484	0.405	0.414	0.434	9.15
6)	T	Chloroethane	0.492	0.439	0.474	0.521	0.514	0.533	0.496	7.02
7)	T	Trichlorofluorometh	0.769	0.627	0.744	0.842	0.824	0.843	0.775	10.72
8)	T	Ethyl ether	0.361	0.398	0.397	0.430	0.443	0.453	0.414	8.36
9)	T	Acrolein	0.037	0.035	0.038	0.036	0.042	0.039	0.038	6.32
10)	T	Acetone	0.205	0.173	0.167	0.169	0.194	0.160	0.178	9.82
11)	CM	1,1-Dichloroethene	0.524	0.692	0.809	0.912	0.916	0.933	0.798	20.35
12)	T	Iodomethane	0.357	0.434	0.478	0.654	0.661	0.704	0.548	26.17
13)	T	Allyl chloride	0.863	1.068	1.114	1.256	1.265	1.275	1.140	14.14
14)	T	Methylene chloride	0.543	0.554	0.534	0.574	0.569	0.592	0.561	3.84
15)	T	Acrylonitrile	0.153	0.147	0.162	0.160	0.178	0.165	0.161	6.52
16)	T	Carbon disulfide	0.936	1.227	1.410	1.648	1.675	1.734	1.438	21.66
17)	T	trans-1,2-Dichloroe	0.489	0.557	0.602	0.676	0.667	0.669	0.610	12.38
18)	T	cis-1,2-Dichloroeth	0.576	0.627	0.651	0.699	0.709	0.715	0.663	8.32
19)	T	Methyl-t-butyl ethe	1.042	1.060	1.110	1.161	1.242	1.222	1.140	7.29
20)	T	n-Hexane	0.465	0.615	0.812	0.938	0.929	0.935	0.782	25.47
21)	T	Vinyl Acetate	1.089	1.019	1.082	1.141	1.232	1.175	1.123	6.73
22)	P	1,1-Dichloroethane	0.919	1.058	1.101	1.233	1.201	1.235	1.125	11.04
23)	T	2,2-Dichloropropane	0.510	0.637	0.711	0.824	0.827	0.851	0.727	18.48
24)	T	2-Butanone (MEK)	0.044	0.048	0.048	0.046	0.056	0.049	0.048	7.95
25)	T	Propionitrile	0.063	0.060	0.061	0.057	0.061	0.060	0.060	3.12
26)	T	Methyl acrylate	0.366	0.357	0.366	0.369	0.417	0.392	0.378	5.97
27)	T	Bromochloromethane	0.287	0.300	0.313	0.337	0.342	0.340	0.320	7.26
28)	T	Methacrylonitrile	0.267	0.243	0.277	0.270	0.304	0.290	0.275	7.59
29)	T	Tetrahydrofuran (TH	0.157	0.143	0.153	0.139	0.147	0.136	0.146	5.54
30)	C	Chloroform	0.812	0.907	0.904	1.006	0.988	1.008	0.937	8.28
31)	S	Dibromofluoromethan	0.473	0.459	0.475	0.463	0.494	0.469	0.472	2.58
32)	T	1,1,1-Trichloroetha	0.508	0.631	0.728	0.815	0.812	0.838	0.722	17.97
33)	T	Butyl chloride (1-c	1.094	1.357	1.430	1.587	1.562	1.694	1.454	14.64
34)	T	Carbon tetrachlorid	0.350	0.460	0.555	0.655	0.657	0.680	0.559	23.58
35)	T	1,1-Dichloropropene	0.606	0.794	0.900	1.025	0.994	1.038	0.893	18.78
36)	I	1,4-Difluorobenzene	----------ISTD----------							
37)	T	1,2-Dichloroethane	0.347	0.356	0.367	0.386	0.388	0.393	0.373	5.09
38)	M	Benzene	1.227	1.445	1.458	1.654	1.616	1.699	1.516	11.58
39)	T	n-Heptane	0.541	0.686	0.828	1.002	0.958	0.990	0.834	22.49
40)	M	Trichloroethene	0.283	0.334	0.340	0.387	0.384	0.398	0.354	12.36
41)	T	Methyl methacrylate	0.156	0.160	0.163	0.175	0.195	0.193	0.174	9.68
42)	C	1,2-Dichloropropane	0.338	0.369	0.373	0.416	0.412	0.428	0.389	8.98

(#) = Out of Range

Response Factor Report VOA_H

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Fri Sep 28 11:36:56 2007
Response via : Initial Calibration

Calibration Files
5 =H72431.D 10 =H72430.D 20 =H72429.D
50 =H72428.D 100 =H72427.D 200 =H72426.D

		Compound	5	10	20	50	100	200	Avg	%RSD
43)	T	Bromodichloromethan	0.297	0.326	0.348	0.386	0.395	0.413	0.361	12.41
44)	T	Dibromomethane	0.140	0.139	0.144	0.155	0.160	0.161	0.150	6.73
45)	T	2-Nitropropane	0.083	0.097	0.080	0.118	0.087	0.152	0.103	27.10
46)	T	2-Chloroethyl vinyl	0.044	0.060	0.045	0.072	0.033	0.101	0.059	42.05
47)	T	cis-1,3-Dichloropro	0.402	0.441	0.471	0.532	0.550	0.578	0.496	13.79
48)	T	4-Methyl-2-pentanon	0.257	0.257	0.269	0.281	0.308	0.297	0.278	7.53
49)	CM	Toluene	0.758	0.879	0.890	1.004	0.998	1.056	0.931	11.73
50)	T	trans-1,3-Dichlorop	0.302	0.333	0.349	0.401	0.424	0.442	0.375	14.74
51)	T	1,1,2-Trichloroetha	0.175	0.175	0.182	0.190	0.196	0.200	0.186	5.83
52)	S	d8-Toluene	1.095	1.088	1.071	1.088	1.103	1.086	1.088	0.97
53)	T	1,4-Dichloro-2-bute	0.049	0.049	0.058	0.064	0.074	0.077	0.062	19.07
54)	I	d5-Chlorobenzene	----------ISTD----------							
55)	T	Ethyl methacrylate	0.320	0.347	0.379	0.410	0.442	0.445	0.390	13.05
56)	T	2-Hexanone	0.222	0.221	0.251	0.265	0.303	0.279	0.257	12.61
57)	T	Tetrachloroethene	0.326	0.402	0.417	0.478	0.447	0.490	0.427	14.01
58)	T	1,3-Dichloropropane	0.507	0.542	0.556	0.592	0.591	0.614	0.567	6.94
59)	T	Chlorodibromomethan	0.228	0.263	0.266	0.295	0.307	0.320	0.280	12.05
60)	T	1,2-Dibromoethane (	0.245	0.252	0.267	0.281	0.291	0.299	0.272	7.94
61)	MP	Chlorobenzene	1.077	1.224	1.197	1.342	1.298	1.390	1.254	9.00
62)	C	Ethyl benzene	1.692	2.114	2.141	2.541	2.412	2.586	2.248	14.96
63)	T	m&p-Xylene	0.597	0.798	0.792	0.964	0.893	1.025	0.845	17.99
64)	T	o-Xylene	0.592	0.747	0.723	0.872	0.818	0.932	0.780	15.46
65)	T	Styrene	0.945	1.206	1.184	1.446	1.394	1.604	1.297	17.94
66)	P	Bromoform	0.111	0.117	0.128	0.139	0.154	0.159	0.135	14.56
67)	T	Isopropylbenzene (c	1.398	1.844	1.877	2.298	2.159	2.401	1.996	18.43
68)	S	4-Bromofluorobenzen	0.427	0.440	0.444	0.452	0.449	0.458	0.445	2.47
69)	T	1,1,1,2-Tetrachloro	0.269	0.310	0.315	0.362	0.357	0.386	0.333	12.83
70)	I	d4-1,4-Dichlorobenzen	----------ISTD----------							
71)	P	1,1,2,2-Tetrachloro	1.127	1.088	1.109	1.008	1.068	0.986	1.064	5.28
72)	T	1,2,3-Trichloroprop	0.305	0.271	0.287	0.270	0.281	0.259	0.279	5.73
73)	T	n-Propylbenzene	5.900	7.504	7.289	8.739	7.823	7.861	7.519	12.43
74)	T	o-Chlorotoluene	3.691	4.402	4.195	4.709	4.385	4.597	4.330	8.33
75)	T	p-Chlorotoluene	4.094	4.382	4.513	4.594	4.645	4.586	4.469	4.59
76)	T	1,2,4-Trimethylbenz	3.520	4.727	4.170	5.304	4.392	5.277	4.565	15.04
77)	T	Bromobenzene	1.141	1.147	1.144	1.153	1.158	1.147	1.148	0.54
78)	T	tert-Butylbenzene	2.691	3.982	3.474	4.551	3.948	4.594	3.873	18.45
79)	T	Pentachloroethane	0.585	0.591	0.624	0.645	0.648	0.633	0.621	4.36
80)	T	1,3,5-Trimethylbenz	3.195	4.670	3.745	5.203	4.118	5.313	4.374	19.15
81)	T	sec-Butylbenzene	4.523	6.244	5.903	7.482	6.639	7.101	6.315	16.56
82)	T	1,3-Dichlorobenzene	1.869	2.194	2.092	2.344	2.252	2.416	2.195	8.91
83)	T	p-Isopropyltoluene	3.259	4.875	4.200	5.917	4.992	6.000	4.874	21.39
84)	T	1,4-Dichlorobenzene	2.132	2.150	2.137	2.293	2.191	2.314	2.203	3.68

(#) = Out of Range

Response Factor Report VOA_H

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Fri Sep 28 11:36:56 2007
Response via : Initial Calibration

Calibration Files
5 =H72431.D 10 =H72430.D 20 =H72429.D
50 =H72428.D 100 =H72427.D 200 =H72426.D

		Compound	5	10	20	50	100	200	Avg	%RSD
85)	T	1,2-Dichlorobenzene	1.778	1.909	1.800	1.959	1.886	1.973	1.884	4.27
86)	T	n-Butylbenzene	2.482	4.157	3.645	5.729	4.449	5.866	4.388	29.23
87)	T	Hexachloroethane	0.513	0.539	0.586	0.655	0.658	0.674	0.604	11.26
88)	T	1,2-Dibromo-3-chlor	0.116	0.114	0.124	0.125	0.139	0.135	0.125	7.90
89)	T	1,2,3-Trichlorobenz	0.443	0.543	0.617	0.935	0.825	1.165	0.755	35.87
90)	T	Hexachlorobutadiene	0.536	0.669	0.672	0.753	0.714	0.756	0.683	11.90
91)	T	1,2,4-Trichlorobenz	0.417	0.475	0.565	0.776	0.707	0.946	0.648	30.78
92)	T	Naphthalene	0.583	0.459	0.831	1.293	1.195	1.840	1.033	49.65

(#) = Out of Range

Evaluate Continuing Calibration Report FORM VII

Data File : C:\DATA\2007\0710\071017\H73149.D Vial: 3
Acq On : 17 Oct 2007 9:18 am Operator: BECKY
Sample : VSTD050 50uL #10878,10916/50mL Inst : VOA_H
Misc : 5.0mL HP&T, 1.0uL #10952 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Thu Oct 25 09:18:03 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	101	0.01
2	T	Dichlorodifluoromethane	50.000	40.004	20.0	75	0.00
3	P	Chloromethane	50.000	44.310	11.4	86	0.00
4	C	Vinyl Chloride	50.000	50.792	-1.6	96	0.01
5	T	Bromomethane	50.000	53.757	-7.5	98	0.00
6	T	Chloroethane	50.000	57.092	-14.2	110	0.00
7	T	Trichlorofluoromethane	50.000	55.698	-11.4	104	0.00
8	T	Ethyl ether	50.000	56.875	-13.8	111	0.00
9	T	Acrolein	250.000	277.228	-10.9	120	0.00
10	T	Acetone	50.000	48.103	3.8	103	0.00
11	CM	1,1-Dichloroethene	50.000	51.371	-2.7	103	0.00
12	T	Iodomethane	50.000	54.251	-8.5	106	0.01
13	T	Allyl chloride	50.000	57.264	-14.5	105	0.00
14	T	Methylene chloride	50.000	65.108	-30.2#	129	0.00
15	T	Acrylonitrile	250.000	280.025	-12.0	114	0.01
16	T	Carbon disulfide	50.000	48.088	3.8	96	0.01
17	T	trans-1,2-Dichloroethene	50.000	58.006	-16.0	106	0.00
18	T	cis-1,2-Dichloroethene	50.000	55.205	-10.4	106	0.01
19	T	Methyl-t-butyl ether (MTBE)	50.000	55.892	-11.8	111	0.01
20	T	n-Hexane	50.000	50.246	-0.5	101	0.01
21	T	Vinyl Acetate	50.000	54.837	-9.7	110	0.00
22	P	1,1-Dichloroethane	50.000	56.845	-13.7	105	0.00
23	T	2,2-Dichloropropane	50.000	52.364	-4.7	104	0.01
24	T	2-Butanone (MEK)	50.000	51.436	-2.9	109	0.01
25	T	Propionitrile	50.000	54.303	-8.6	116	0.00
26	T	Methyl acrylate	50.000	53.135	-6.3	111	0.01
27	T	Bromochloromethane	50.000	51.892	-3.8	100	0.01
28	T	Methacrylonitrile	50.000	53.633	-7.3	111	0.01
29	T	Tetrahydrofuran (THF)	50.000	50.967	-1.9	109	0.00
30	C	Chloroform	50.000	54.854	-9.7	104	0.00
31	S	Dibromofluoromethane	50.000	51.216	-2.4	106	0.01
32	T	1,1,1-Trichloroethane	50.000	53.029	-6.1	105	0.00
33	T	Butyl chloride (1-chlorobut	50.000	55.345	-10.7	103	0.01
34	T	Carbon tetrachloride	50.000	47.763	4.5	100	0.00
35	T	1,1-Dichloropropene	50.000	49.578	0.8	96	0.01
36	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.01
37	T	1,2-Dichloroethane	50.000	56.272	-12.5	104	0.01
38	M	Benzene	50.000	57.123	-14.2	100	0.02
39	T	n-Heptane	50.000	50.474	-0.9	94	0.02
40	M	Trichloroethene	50.000	54.600	-9.2	95	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\DATA\2007\0710\071017\H73149.D Vial: 3
Acq On : 17 Oct 2007 9:18 am Operator: BECKY
Sample : VSTD050 50uL #10878,10916/50mL Inst : VOA_H
Misc : 5.0mL HP&T, 1.0uL #10952 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Thu Oct 25 09:18:03 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methyl methacrylate	50.000	52.259	-4.5	99	0.01
42	C	1,2-Dichloropropane	50.000	52.397	-4.8	94	0.01
43	T	Bromodichloromethane	50.000	54.216	-8.4	97	0.02
44	T	Dibromomethane	50.000	51.962	-3.9	96	0.01
45	T	2-Nitropropane	50.000	50.068	-0.1	64	0.00
46	T	2-Chloroethyl vinyl ether	50.000	56.292	-12.6	47	0.02
47	T	cis-1,3-Dichloropropene	50.000	54.977	-10.0	98	0.02
48	T	4-Methyl-2-pentanone	50.000	51.924	-3.8	98	0.02
49	CM	Toluene	50.000	53.737	-7.5	95	0.01
50	T	trans-1,3-Dichloropropene	50.000	54.646	-9.3	98	0.02
51	T	1,1,2-Trichloroethane	50.000	50.937	-1.9	95	0.02
52	S	d8-Toluene	50.000	48.659	2.7	93	0.01
53	T	1,4-Dichloro-2-butene	50.000	49.082	1.8	100	0.02
54	I	d5-Chlorobenzene	50.000	50.000	0.0	92	0.01
55	T	Ethyl methacrylate	50.000	56.748	-13.5	100	0.01
56	T	2-Hexanone	50.000	55.261	-10.5	99	0.01
57	T	Tetrachloroethene	50.000	54.820	-9.6	90	0.02
58	T	1,3-Dichloropropane	50.000	55.485	-11.0	98	0.01
59	T	Chlorodibromomethane	50.000	56.442	-12.9	99	0.02
60	T	1,2-Dibromoethane (EDB)	50.000	55.001	-10.0	98	0.02
61	MP	Chlorobenzene	50.000	55.073	-10.1	95	0.01
62	C	Ethyl benzene	50.000	53.991	-8.0	93	0.01
63	T	m&p-Xylene	100.000	110.455	-10.5	93	0.01
64	T	o-Xylene	50.000	55.097	-10.2	93	0.02
65	T	Styrene	50.000	54.954	-9.9	94	0.01
66	P	Bromoform	50.000	52.226	-4.5	101	0.02
67	T	Isopropylbenzene (cumene)	50.000	55.722	-11.4	95	0.02
68	S	4-Bromofluorobenzene	50.000	50.454	-0.9	91	0.01
69	T	1,1,1,2-Tetrachloroethane	50.000	57.142	-14.3	97	0.01
70	I	d4-1,4-Dichlorobenzene	50.000	50.000	0.0	88	0.01
71	P	1,1,2,2-Tetrachloroethane	50.000	50.572	-1.1	94	0.01
72	T	1,2,3-Trichloropropane	50.000	54.256	-8.5	98	0.00
73	T	n-Propylbenzene	50.000	56.926	-13.9	86	0.01
74	T	o-Chlorotoluene	50.000	63.783	-27.6	103	0.01
75	T	p-Chlorotoluene	50.000	57.497	-15.0	98	0.00
76	T	1,2,4-Trimethylbenzene	50.000	54.390	-8.8	81	0.01
77	T	Bromobenzene	50.000	54.523	-9.0	95	0.01
78	T	tert-Butylbenzene	50.000	52.997	-6.0	81	0.01
79	T	Pentachloroethane	50.000	55.245	-10.5	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\DATA\2007\0710\071017\H73149.D Vial: 3
Acq On : 17 Oct 2007 9:18 am Operator: BECKY
Sample : VSTD050 50uL #10878,10916/50mL Inst : VOA_H
Misc : 5.0mL HP&T, 1.0uL #10952 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\2\METHODS\H8260B1.M (RTE Integrator)
Title : Volatile Organic Analysis; Method 8260 NonAqueous
Last Update : Thu Oct 25 09:18:03 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	T	1,3,5-Trimethylbenzene	50.000	54.095	-8.2	76	0.00
81	T	sec-Butylbenzene	50.000	54.681	-9.4	87	0.01
82	T	1,3-Dichlorobenzene	50.000	53.448	-6.9	88	0.01
83	T	p-Isopropyltoluene (cymene)	50.000	53.922	-7.8	80	0.01
84	T	1,4-Dichlorobenzene	50.000	54.471	-8.9	92	0.01
85	T	1,2-Dichlorobenzene	50.000	53.646	-7.3	91	0.01
86	T	n-Butylbenzene	50.000	51.895	-3.8	71	0.00
87	T	Hexachloroethane	50.000	57.289	-14.6	93	0.00
88	T	1,2-Dibromo-3-chloropropane	50.000	55.334	-10.7	98	0.00
89	T	1,2,3-Trichlorobenzene	50.000	51.415	-2.8	73	0.00
90	T	Hexachlorobutadiene	50.000	57.810	-15.6	92	0.01
91	T	1,2,4-Trichlorobenzene	50.000	49.705	0.6	73	0.01
92	T	Naphthalene	50.000	47.311	5.4	64	0.00

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Lab File ID (Standard): H73149.D Date Analyzed: 10/17/2007

Instrument ID: "H" Time Analyzed: 9:18

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

		IS10 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	749629	3.29	1229355	3.79	875272	5.96
	UPPER LIMIT	1499258	3.79	2458710	4.29	1750544	6.46
	LOWER LIMIT	374815	2.79	614678	3.29	437636	5.46
	EPA SAMPLE NO.						
01	VBLKS	754800	3.29	1218745	3.79	846105	5.97
02	PC-S-01-101607	783375	3.30	1304581	3.79	896652	5.98
03	74568002	677703	3.30	1064087	3.80	758164	5.97
04	74568002MS	748473	3.30	1230910	3.79	893538	5.97
05	74568002MSD	373838 *	3.30	601556 *	3.79	446006	5.97

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = d4-1,4-Dichlorobenzene

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 to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: 05-PC-10 SAS No.: SDG No.:

Lab File ID (Standard): H73149.D Date Analyzed: 10/17/07

Instrument ID: "H" Time Analyzed: 09:18

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

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	286642	7.96				
	UPPER LIMIT	573284	7.46				
	LOWER LIMIT	143321	8.46				
	EPA SAMPLE NO.						
01	VBLKS	211362	7.95				
02	PC-S-01-1016	212436	7.96				
03	74568002	186415	7.96				
04	74568002MS	291034	7.96				
05	74568002MSD	145895	7.96				

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = d5-Chlorobenzene
IS4 = d4-1,4-Dichlorobenzene

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 to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Polynuclear Aromatic Hydrocarbons QC Summary

DYNAMAC CORPORATION

05-PC-10/16/07-0009

First Environmental File ID: 7-4600

Date Received: 10/17/07

Sample List for Group: PNA_Oct_18_2007

Printing Date Oct-22-2007

Lab File ID	EPA SAMPLE NO.	Lab Sample ID	Date Acq.		Date Rec.	Date Due
G80341.D	STUN01	STUN01	10/18/07	9:19	10/17/07	
G80342.D	PSTD001	PNA STD 1.0ppm	10/18/07	9:38	10/17/07	
G80345.D	PBLKS2	PNA BLANK2	10/18/07	11:18	10/17/07	
G80346.D	PLCSS2	PNA LCS2 2ppm	10/18/07	11:48	10/17/07	
G80347.D	7-4600-001	7-4600-001 DYNA	10/18/07	12:18	10/17/07	
G80352.D	7-4574-016	7-4574-016 XYZ	10/18/07	15:41	10/17/07	
G80353.D	MS7-4574-016	MS7-4574-016 XYZ	10/18/07	16:11	10/17/07	
G80354.D	MSD7-4574-01	MSD7-4574-016 XYZ	10/18/07	16:41	10/17/07	

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	TOT OUT
01	PBLKS2	56	69	93	0
02	PLCSS2	61	78	105	0
03	7-4600-001	54	48	72	0
04	7-4574-016	49	58	100	0
05	MS7-4574-016	62	69	108	0
06	MSD7-4574-016	59	66	99	0

				QC LIMITS
S1	(NBZ)	=	Nitrobenzene-d5	(23-99)
S2	(FBP)	=	2-Fluorobiphenyl	(28-118)
S3	(TPH)	=	Terphenyl-d14	(60-152)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3

Spike Recovery and RPD Summary Report - SOIL

Method : C:\HPCHEM\1\METHODS\G_PNA2.M (RTE Integrator)
Title : PNA Analysis by Method 8270 (Low Level)
Last Update : Thu Oct 18 10:10:02 2007
Response via : Initial Calibration

Non-Spiked Sample: G80352.D

	Spike Sample	Spike Duplicate Sample
File ID :	G80353.D	G80354.D
Sample :	MS7-4574-016 XYZ PSOX 10-17-07	MSD7-4574-016 XYZ P
Acq Time:	18 Oct 2007 4:11 pm	18 Oct 2007 4:41 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Naphthalene	0.0	2	1	1	52	52	1	25	37-101
Acenaphthylene	0.0	2	2	2	80	80	1	19	67-125
Acenaphthene	0.0	2	2	1	77	74	4	25	57-114
Fluorene	0.0	2	2	2	92	91	1	25	62-123
Phenanthrene	0.1	2	2	2	106	101	6	25	55-130
Anthracene	0.0	2	2	2	114	104	9	25	68-116
Fluoranthene	0.1	2	2	2	111	104	6	25	50-136
Pyrene	0.0	2	2	2	105	92	13	36	46-166
Benzo[a]anthracene	0.0	2	2	2	94	89	6	25	54-141
Chrysene	0.1	2	2	2	97	88	10	25	49-139
Benzo[b]fluoranthene	0.1	2	2	2	100	88	13	25	47-175
Benzo[k]fluoranthene	0.1	2	2	2	83	78	6	25	54-167
Benzo[a]pyrene	0.0	2	2	2	96	85	12	25	63-162
Indeno[1,2,3-cd]pyre	0.0	2	2	2	93	82	12	25	54-171
Dibenz[a,h]anthracen	0.0	2	2	2	115	106	8	25	43-146
Benzo[g,h,i]perylene	0.0	2	2	2	107	94	13	25	28-128

- Fails Limit Check

3

Spike Recovery and RPD Summary Report - SOIL

Method : C:\HPCHEM\1\METHODS\G_PNABCM.M (RTE Integrator)
Title : PNA Analysis by Method 8270 (Low Level)
Last Update : Thu Oct 18 11:58:20 2007
Response via : Initial Calibration

Non-Spiked Sample: G80345.D

	Spike Sample	Spike Duplicate Sample
File ID :	G80346.D	G80346.D
Sample :	PNA LCS2 2ppm PSOX 10-17-07	PNA LCS2 2ppm PSOX
Acq Time:	18 Oct 2007 11:48 am	18 Oct 2007 11:48 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Naphthalene	0.0	2	2	2	76	76	0	25	37-101
Acenaphthylene	0.0	2	2	2	82	82	0	19	67-125
Acenaphthene	0.0	2	2	2	78	78	0	25	57-114
Fluorene	0.0	2	2	2	87	87	0	25	62-123
Phenanthrene	0.1	2	2	2	102	102	0	25	55-130
Anthracene	0.0	2	2	2	107	107	0	25	68-116
Fluoranthene	0.0	2	2	2	113	113	0	25	50-136
Pyrene	0.0	2	2	2	102	102	0	36	46-166
Benzo[a]anthracene	0.0	2	2	2	95	95	0	25	54-141
Chrysene	0.0	2	2	2	94	94	0	25	49-139
Benzo[b]fluoranthene	0.0	2	2	2	91	91	0	25	47-175
Benzo[k]fluoranthene	0.0	2	2	2	94	94	0	25	54-167
Benzo[a]pyrene	0.0	2	2	2	94	94	0	25	63-162
Indeno[1,2,3-cd]pyre	0.0	2	2	2	76	76	0	25	54-171
Dibenz[a,h]anthracen	0.0	2	2	2	99	99	0	25	43-146
Benzo[g,h,i]perylene	0.0	2	2	2	88	88	0	25	28-128

N/A

- Fails Limit Check

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS2

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: G80345.D Lab Sample ID: PNA BLANK2

Instrument ID: G Date Extracted: 10/17/07

Matrix: (soil/water) SOIL Date Analyzed: 10/18/07

Level: (low/med) LOW Time Analyzed: 11:18

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PLCSS2	PNA LCS2 2PPM	G80346.D	10/18/07
02	7-4600-001	7-4600-001 DYNAM	G80347.D	10/18/07
03	7-4574-016	7-4574-016 XYZ	G80352.D	10/18/07
04	MS7-4574-016	MS7-4574-016 XYZ	G80353.D	10/18/07
05	MSD7-4574-016	MSD7-4574-016 XYZ	G80354.D	10/18/07

COMMENTS:

Quantitation Report (Not Reviewed)

Data File : D:\DATA\0710\071018\G80345.D Vial: 5
Acq On : 18 Oct 2007 11:18 am Operator: ADAM
Sample : PNA BLANK2 PSOX 10-17-07 Inst : GC/MS G
Misc : 30.00g/1mL, 25uL ISTD/1mL SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 18 11:42 2007 Quant Results File: G_PNA2.RES

Quant Method : C:\HPCHEM\1\METHODS\G_PNA2.M (RTE Integrator)
Title : PNA Analysis by Method 8270 (Low Level)
Last Update : Thu Oct 18 10:10:02 2007
Response via : Initial Calibration
DataAcq Meth : G_PNA2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.07	152	308372	10.00	ug/mL	-0.01
2) Naphthalene-d8	5.59	136	1387446	10.00	ug/mL	0.00
5) Acenaphthene-d10	7.91	164	832087	10.00	ug/mL	-0.01
10) Phenanthrene-d10	9.90	188	1319488	10.00	ug/mL	0.00
14) Chrysene-d12	13.52	240	1285101	10.00	ug/mL	0.00
19) Perylene-d12	15.54	264	1135241	10.00	ug/mL	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	4.73	82	349203	5.59	ug/mL	-0.01
Spiked Amount 10.000	Range 23 - 99		Recovery = 55.90%			
6) 2-Fluorobiphenyl	7.04	172	812066	6.87	ug/mL	-0.01
Spiked Amount 10.000	Range 28 - 118		Recovery = 68.70%			
16) Terphenyl-d14	12.15	244	1154497	9.28	ug/mL	0.00
Spiked Amount 10.000	Range 60 - 152		Recovery = 92.80%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

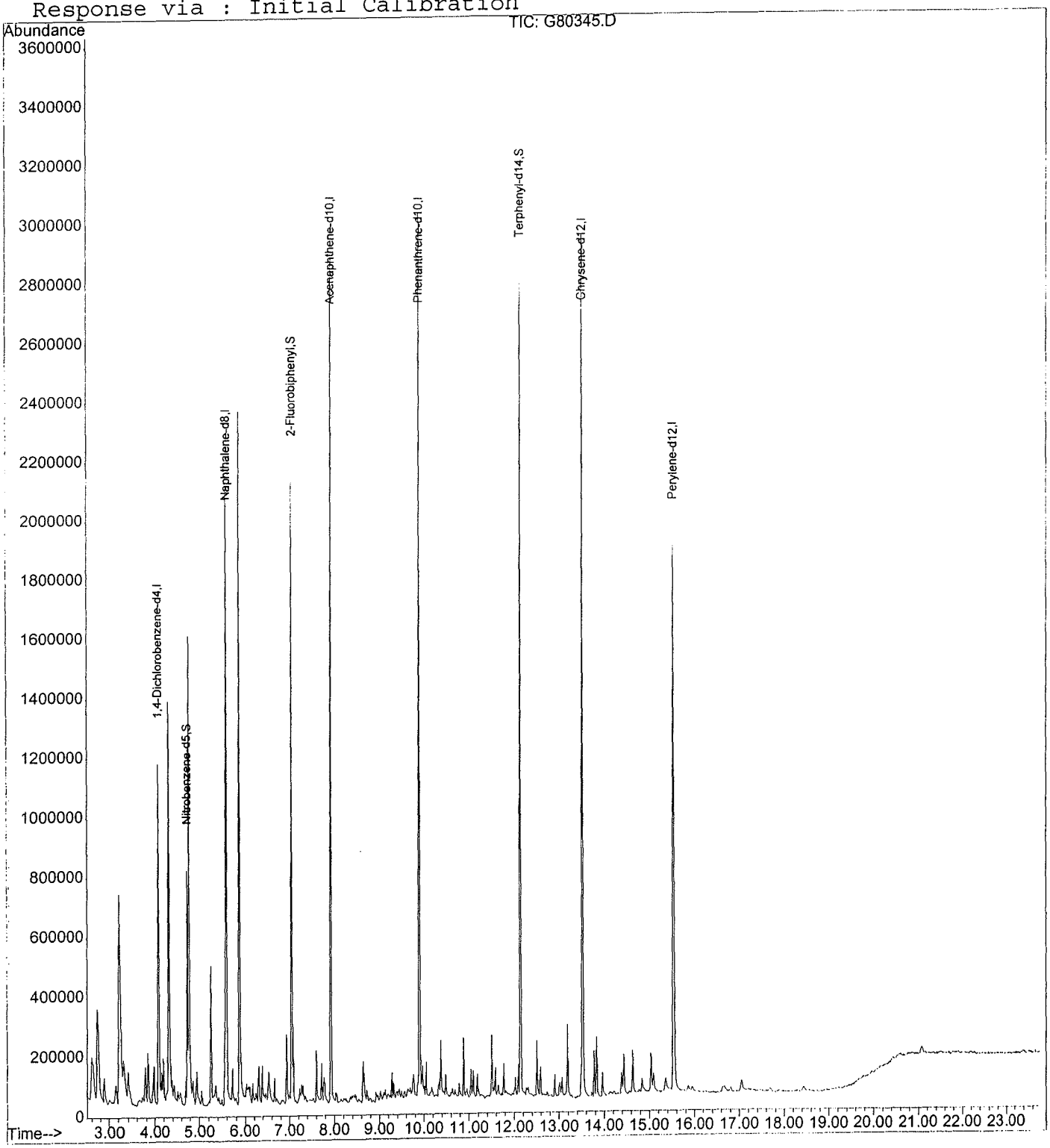
Quantitation Report

Data File : D:\DATA\0710\071018\G80345.D
Acq On : 18 Oct 2007 11:18 am
Sample : PNA BLANK2 PSOX 10-17-07
Misc : 30.00g/1mL, 25uL ISTD/1mL SOIL
MS Integration Params: rteint.p
Quant Time: Oct 18 11:42 2007

Vial: 5
Operator: ADAM
Inst : GC/MS G
Multiplr: 1.00

Quant Results File: G_PNA2.RES

Method : C:\HPCHEM\1\METHODS\G_PNA2.M (RTE Integrator)
Title : PNA Analysis by Method 8270 (Low Level)
Last Update : Thu Oct 18 10:10:02 2007
Response via : Initial Calibration



1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PBLKS2

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: PNA BLANK2

Sample wt/vol: 30 (g/ml) G Lab File ID: G80345.D

Level: (low/med) LOW Date Received: 10/17/07

% Moisture: 0 decanted:(Y/N) Y Date Extracted: 10/17/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/07

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8	U
208-96-8	Acenaphthylene	8	U
83-32-9	Acenaphthene	8	U
86-73-7	Fluorene	8	U
85-01-8	Phenanthrene	8	U
120-12-7	Anthracene	8	U
206-44-0	Fluoranthene	8	U
129-00-0	Pyrene	8	U
56-55-3	Benzo[a]anthracene	8	U
218-01-9	Chrysene	8	U
205-99-2	Benzo[b]fluoranthene	8	U
207-08-9	Benzo[k]fluoranthene	8	U
50-32-8	Benzo[a]pyrene	8	U
193-39-5	Indeno[1,2,3-cd]pyrene	8	U
53-70-3	Dibenz[a,h]anthracene	8	U
191-24-2	Benzo[g,h,i]perylene	8	U

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: G80341.D DFTPP Injection Date: 10/18/07

Instrument ID: G DFTPP Injection Time: 9:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.8
68	Less than 2.0% of mass 69	0.4 (1.0)1
69	Mass 69 Relative abundance	36.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	51.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 0.75% of mass 198	2.5
441	Present, but less than mass 443	8.5
442	40.0 - 110.0% of mass 198	59.3
443	15.0 - 24.0% of mass 442	11.6 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

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	PSTD001	PNA STD 1.0PPM	G80342.D	10/18/07	9:38
02	PBLKS2	PNA BLANK2	G80345.D	10/18/07	11:18
03	PLCSS2	PNA LCS2 2PPM	G80346.D	10/18/07	11:48
04	7-4600-001	7-4600-001 DYNAM	G80347.D	10/18/07	12:18
05	7-4574-016	7-4574-016 XYZ	G80352.D	10/18/07	15:41
06	MS7-4574-016	MS7-4574-016 XYZ	G80353.D	10/18/07	16:11
07	MSD7-4574-016	MSD7-4574-016 XYZ	G80354.D	10/18/07	16:41

6

Response Factor Report GC/MS G

Method : C:\HPCHEM\1\METHODS\G_PNA2.M (RTE Integrator)
Title : PNA Analysis by Method 8270 (Low Level)
Last Update : Tue Jan 25 11:00:02 2005
Response via : Initial Calibration

Calibration Files
0.25 =G52572.D 0.50 =G52573.D 1.0 =G52574.D
5.0 =G52575.D 10 =G52576.D 20 =G52577.D

		Compound	0.25	0.50	1.0	5.0	10	20	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)	I	Naphthalene-d8	ISTD							
3)	S	Nitrobenzene-d5	0.503	0.442	0.454	0.419	0.452	0.433	0.451	6.37
4)	M	Naphthalene	1.120	1.038	1.099	1.042	1.052	1.034	1.064	3.39
5)	I	Acenaphthene-d10	ISTD							
6)	S	2-Fluorobiphenyl	1.567	1.418	1.361	1.384	1.393	1.401	1.421	5.19
7)	M	Acenaphthylene	1.978	1.816	1.748	1.846	1.884	1.900	1.862	4.22
8)	MC	Acenaphthene	1.323	1.236	1.157	1.178	1.166	1.169	1.205	5.36
9)	M	Fluorene	1.329	1.306	1.318	1.362	1.371	1.386	1.345	2.39
10)	I	Phenanthrene-d10	ISTD							
11)	M	Phenanthrene	1.203	1.153	1.154	1.123	1.210	1.194	1.173	2.95
12)	M	Anthracene	1.102	1.008	1.009	1.044	1.083	1.115	1.060	4.39
13)	MC	Fluoranthene	1.235	1.120	1.167	1.191	1.243	1.257	1.202	4.38
14)	I	Chrysene-d12	ISTD							
15)	M	Pyrene	1.406	1.363	1.382	1.409	1.438	1.453	1.408	2.38
16)	S	Terphenyl-d14	1.024	0.906	0.987	0.942	0.976	0.975	0.969	4.15
17)	M	Benzo[a]anthracene	1.470	1.331	1.263	1.325	1.382	1.391	1.360	5.20
18)	M	Chrysene	1.389	1.260	1.256	1.282	1.292	1.332	1.302	3.91
19)	I	Perylene-d12	ISTD							
20)	M	Benzo[b]fluoranthen	1.320	1.509	1.580	1.570	1.535	1.458	1.495	6.47
21)	M	Benzo[k]fluoranthen	1.500	1.198	1.202	1.203	1.386	1.468	1.326	10.70
22)	MC	Benzo[a]pyrene	1.193	1.190	1.182	1.222	1.287	1.298	1.229	4.17
23)	M	Indeno[1,2,3-cd]pyr	1.223	1.035	1.107	1.111	1.157	1.213	1.141	6.26
24)	M	Dibenz[a,h]anthrace	0.948	0.975	1.003	1.047	1.121	1.138	1.039	7.50
25)	M	Benzo[g,h,i]perylen	1.012	1.097	1.085	1.100	1.163	1.163	1.103	5.11

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\DATA\0710\071018\G80342.D
Acq On : 18 Oct 2007 9:38 am
Sample : PNA STD 1.0ppm
Misc : #10888
MS Integration Params: rteint.p

Vial: 2
Operator: ADAM
Inst : GC/MS G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\G_PNA2.M (RTE Integrator)
Title : PNA Analysis by Method 8270 (Low Level)
Last Update : Thu Oct 18 10:10:02 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
2	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
3	S	Nitrobenzene-d5	0.451	0.384	14.9	74	0.00
4	M	Naphthalene	1.064	1.151	-8.2	92	0.00
5	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
6	S	2-Fluorobiphenyl	1.421	1.415	0.4	89	0.00
7	M	Acenaphthylene	1.862	1.987	-6.7	98	0.00
8	MC	Acenaphthene	1.205	1.244	-3.2	92	0.00
9	M	Fluorene	1.345	1.431	-6.4	93	0.00
10	I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00
11	M	Phenanthrene	1.173	1.291	-10.1	89	0.00
12	M	Anthracene	1.060	1.102	-4.0	87	0.00
13	MC	Fluoranthene	1.202	1.354	-12.6	92	0.00
14	I	Chrysene-d12	1.000	1.000	0.0	82	0.00
15	M	Pyrene	1.408	1.561	-10.9	93	0.00
16	S	Terphenyl-d14	0.969	1.086	-12.1	91	0.00
17	M	Benzo[a]anthracene	1.360	1.370	-0.7	89	0.00
18	M	Chrysene	1.302	1.333	-2.4	87	0.00
19	I	Perylene-d12	1.000	1.000	0.0	97	0.00
20	M	Benzo[b]fluoranthene	1.495	1.405	6.0	86	0.00
21	M	Benzo[k]fluoranthene	1.326	1.299	2.0	104	0.00
22	MC	Benzo[a]pyrene	1.229	1.187	3.4	97	0.00
23	M	Indeno[1,2,3-cd]pyrene	1.141	1.066	6.6	93	0.00
24	M	Dibenz[a,h]anthracene	1.039	1.164	-12.0	112	0.00
25	M	Benzo[g,h,i]perylene	1.103	1.151	-4.4	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): G80342.D Date Analyzed: 10/18/07

Instrument ID: G Time Analyzed: 9:38

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	345411	4.08	1506147	5.59	916175	7.92
	UPPER LIMIT	690822	4.58	3012294	6.09	1832350	8.42
	LOWER LIMIT	172706	3.58	753074	5.09	458088	7.42
	EPA SAMPLE NO.						
01	PBLKS2	308372	4.07	1387446	5.59	832087	7.91
02	PLCSS2	308022	4.08	1356475	5.59	806186	7.92
03	7-4600-001	287638	4.08	1264180	5.59	739550	7.92
04	7-4574-016	330722	4.09	1413468	5.59	819939	7.92
05	MS7-4574-016	316338	4.09	1390426	5.59	825879	7.92
06	MSD7-4574-016	294170	4.09	1319871	5.59	746646	7.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FIRST ENVIRONMENTAL Contract: DYNAMAC

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): G80342.D Date Analyzed: 10/18/07

Instrument ID: G Time Analyzed: 09:38

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	1494542	9.90	1371191	13.52	1314294	15.54
	UPPER LIMIT	2989084	9.40	2742382	13.02	2628588	15.04
	LOWER LIMIT	747271	10.40	685596	14.02	657147	16.04
	EPA SAMPLE NO.						
01	PBLKS2	1319488	9.90	1285101	13.52	1135241	15.54
02	PLCSS2	1264221	9.90	1242282	13.52	1113757	15.54
03	7-4600-001	1105632	9.90	1076082	13.52	976164	15.54
04	7-4574-016	1206699	9.90	1158983	13.53	1067021	15.53
05	MS7-4574-016	1218252	9.90	1156070	13.53	1068816	15.54
06	MSD7-4574-0	1130891	9.90	1095476	13.53	1014173	15.53

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

US EPA Emergency Response Branch
START III, Chicago, IL
EPA Contract Number: EP-S5-06-04

CHAIN OF CUSTODY RECORD
Site #: 05-PC
Contact Name: Marcella Bondie
Contact Phone: 312-446-4399

No: 05-PC[redacted]

Lab: First Environmental
Lab Phone: 630-778-1200

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Coll Method	Sample Time			
	PC-S-01-101607	Area 80	South wall	BTEX	Soil	10/16/2007	1	40oz vial	Na2SO4	Grab	10:00	10	20	feet
	PC-S-01-101607	Area 80	South wall	BTEX	Soil	10/16/2007	2	40oz vial	Methanol	Grab	10:00	10	20	feet
	PC-S-01-101607	Area 80	South wall	PAH, 2-methylnaphthalene, carbazole	Soil	10/16/2007	1	Jar	4 C	Composite	10:00	10	20	feet

Special Instructions: 24 hr TAT. Sampler: M Bondie

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All / lab pickup	M Bondie	10-17-07	[signature]	10/17/07	1639						

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