

IMMEDIATE RESPONSE ACTION COMPLETION REPORT AND IMMINENT HAZARD EVALUATION

Ruggles Street Right-of-Way Surface Soil

New Bedford, Massachusetts

Release Tracking Number 4-23223

Prepared for:

Department of Environmental Stewardship

City of New Bedford

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June 2011

**Immediate Response Action Completion Report
and
Imminent Hazard Evaluation**

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New Bedford, Massachusetts**

Release Tracking Number (RTN) 4-23223

**TRC Project Number: 115058
June 2011**

TRC Environmental Corporation (TRC) is submitting this Immediate Response Action (IRA) Completion Report to the Massachusetts Department of Environmental Protection (MassDEP) on behalf of the City of New Bedford (City). This IRA Completion Report closes-out the reporting condition associated with 310 CMR 40.0321(2)(b) of the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000), where polychlorinated biphenyls (PCBs) were detected in a single surface soil sample at a location identified as RG-ROW-2. This soil sample location is within the unpaved portion of the City-owned Ruggles Street right-of-way (the Site). The detection lead to a 2-hour regulatory reporting obligation to the MassDEP in accordance with 310 CMR 40.0321(2) (b) and 310 CMR 40.0311(7). The condition was reported to the MassDEP by TRC via telephone in conjunction with the City on April 14, 2011. MassDEP orally approved IRA assessment activities and assigned Release Tracking Number (RTN) 4-23223. The Site is a portion of a larger disposal site under the MCP tracked by MassDEP under RTN 4-15685, which is under a Special Project designation due to logistical complexities.

This IRA Completion Report is organized as follows: Section I (Background) briefly summarizes information on TRC's involvement with the Site and the circumstances associated with the detection of the release condition; Section II (IRA Completion Report) provides the information required for an IRA Completion Report under the MCP, specifically 310 CMR 40.0427; Section III (References) lists information sources relied upon in the preparation of this IRA Completion Report. In addition, Attachment A contains soil boring logs, Attachment B contains copies of relevant laboratory reports, Attachment C provides an Imminent Hazard Evaluation and Attachment D contains public notification letters.

I. BACKGROUND

Introduction

In October 2004, soil sampling was conducted within the northern portion of the Ruggles Street right-of-way in New Bedford, Massachusetts (Figure 1) by BETA Group, Incorporated of Norwood, Massachusetts (BETA) as part of larger disposal site investigation activities. A total of four soil borings (RS-1 through RS-4) were advanced by BETA (see Figure 2). Three soil samples (including one field duplicate) were submitted from each soil boring location for laboratory PCB analysis. The analytical results associated with these soil samples were examined

by TRC as a part of ongoing environmental investigation activities at the Nemasket Street Lot. Soil sample results from each soil boring exhibited concentrations of PCBs within the 0 to 4 foot depth interval at concentrations in excess of the S-1 Method 1 soil standard. The detected concentrations of PCBs ranged from 2.07 mg/kg [RS-1 (1-4)] to 7.93 mg/kg [RS-4 (0.5-40)]. TRC conducted additional soil sampling to further define the nature and extent of soil impacts in this area to support remedial planning as described below.

Summary of Work

TRC's environmental investigation consisted of direct push soil borings using a track-mounted drill rig to sample soil and observe subsurface soil conditions. Drilling services and equipment were provided by New England Geotech, LLC of Jamestown, Rhode Island.

On March 24 and April 1, 2011, TRC advanced three soil borings (RG-ROW-1 through RG-ROW-3) within the Ruggles Street right-of-way approximately evenly distributed between BETA soil borings RS-1 through RS-4 (see Figure 2). TRC's soil boring logs are included as Attachment A. TRC collected soil samples from each of the three soil boring locations from 0 to 1 foot and 1 to 3 feet below ground surface intervals. Soil borings were advanced and additional soil samples were collected until native overburden was encountered. Where native overburden was submitted for laboratory analysis, a minimum of two native overburden samples were collected. The lower native horizon was retained for analysis contingent upon the results of the upper native horizon in an effort to determine the vertical extent of potential soil impacts. The contingent native horizon was not analyzed if the upper native horizon was determined to be unimpacted (i.e., below soil standards) based on laboratory analysis.

Each of the soil samples was submitted for laboratory PCB, polyaromatic hydrocarbon (PAH) and MCP metals including mercury analysis. Con-Test Analytical Laboratory (Contest) of East Longmeadow, Massachusetts conducted PAH and metals analyses. Pace/Northeast Analytical Laboratories (NEA) of Schenectady, New York conducted the PCB analyses.

Laboratory analytical results are summarized in Table 1 and the relevant portions of the associated laboratory data package is included as Attachment B. Laboratory analytical results indicated the presence of total PCBs, select PAHs (i.e., benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene), and select metals (i.e., cadmium, chromium, lead and nickel) in excess of Method 1 S-1 soil standards (see Table 1). In addition, soil sample RG-ROW-2 (0-1) exhibited a total concentration of PCBs (11.61 milligrams per kilogram [mg/kg]) in the top foot of soil which lead to the 2-hour regulatory notification per 310 CMR 40.321(2)(b) since the concentration was above 10 mg/kg and due to the proximity to potential receptors and sample depth. None of the remaining soil samples in this area had concentrations at or above the MassDEP 310 CMR 40.0321 (2)(b) reporting thresholds.

II. IRA COMPLETION REPORT (310 CMR 40.0424)

This IRA Completion Report is organized according to the information needs set forth under 310 CMR 40.0427(4)(a) through (f) of the MCP.

(a) Description of Release, Threat of Release, Site Conditions, and Surrounding Receptors

Description of Release/Threat of Release

The 2-hour reporting condition was identified on April 14, 2011 for the detection of PCBs at 11.61 mg/kg in surface soil (0 to 1 feet in depth) within the northern portion of the Ruggles Street right-of-way south of the Nemasket Street Lot (see Figure 2). The detected concentration of PCBs appears to be related to historic filling activities. TRC has performed an Imminent Hazard (IH) evaluation per 310 CMR 40.0426(2) within 14 days of obtaining knowledge of the potential IH condition, which is provided in Attachment C.

Site Conditions

The area of concern is located within the unpaved area to the north of Ruggles Street and south of the Nemasket Street Lot perimeter fence. This area is within the Ruggles Street right-of-way. This area could be accessed by child and adult pedestrians walking along Ruggles Street. The area is vegetated and periodically maintained by the City of New Bedford Department of Public Facilities (DPF).

Surrounding Receptors

The 310 CMR 40.0321(2)(b) reporting condition was detected in surface soil within a City-owned right-of-way and within 500 feet of schools and recreation areas.

Groundwater categories at the Site include actual or potential GW-2, depending upon proximity to occupied structures (groundwater is less than 15 feet below ground surface based on data from nearby locations), and GW-3 (applies to all groundwater throughout the state). However, groundwater impacts from PCBs associated with this area are not expected. For example, recent groundwater monitoring conducted at the Nemasket Street Lot, including monitoring well MW-38 located within approximately 60 feet of soil boring RG-ROW-2, did not exhibit concentrations above groundwater standards or MCP Reportable Concentrations (RCs). The groundwater results are presented on Table 2.

Based on review of on-line MassDEP Priority Resource Map data available from Massachusetts Geographic Information System (MassGIS), the Site is not located with a Current or Potential Drinking Water Source Area (MassGIS, 2008).

The site is not located in a wetland resource area. No other documented sensitive ecological receptor areas (e.g., Areas of Critical Environmental Concern [ACECs]) are known to be located at or near the release Site.

(b) Description of any Immediate Response Actions Undertaken to Date at the Site

At the time of oral notification, MassDEP approved the following response action as an IRA:

- Assessment and/or monitoring only
- Temporary fencing (if deemed necessary)

Please refer to Section I (Background) for a description of data collection activities conducted to date by BETA and TRC.

An IH evaluation was initiated within 14 days of obtaining knowledge of the potential IH condition, which is provided in Attachment C. For the purposes of the IH evaluation, exposures are assumed to occur over a period of 30 weeks, which includes the spring, summer and fall when the ground is not frozen. During this period, exposures are assumed to occur 2 days per week as children and adults walk along Ruggles Street. To estimate exposure, an older child (age 11 to 16) was selected for evaluation because this age group may pass by the Site and loiter along the edge of the roadway. TRC's risk assessment specialist conducted the IH calculations using the MassDEP trespasser shortform to calculate the risk and hazard associated with exposures at the RG-ROW-2 area.

TRC performed the IH analysis on April 28, 2011, satisfying the IH evaluation initiation timeline under the MCP. The risk assessment calculations indicate that no IH condition exists at the RG-ROW-2 area of the Ruggles Street right-of-way. Please see Attachment C for additional details.

The installation of temporary fencing to eliminate access to the RG-ROW-2 area was deemed to be unnecessary as a result of the IH evaluation.

(c) Statement of IRA Findings and Conclusions

The estimated cancer risk and noncarcinogenic hazard for the older child trespasser do not exceed the MCP risk limits for an IH of an excess lifetime cancer risk (ELCR) of 1E-05 or a hazard index (HI) of 10.

(d) Management of Remediation Waste, Remedial Waste Water, and/or Remedial Additives

No remediation waste or remedial waste water has been generated, and no remedial additives were used.

(e) Ongoing Activities

The condition that could pose an IH and gave rise to the IRA was determined to not present an IH based on conservative calculations discussed herein. The diagnosis, remedy, and closure of the release condition will be addressed as part of the comprehensive response actions for the Nemasket Street Lot under Special Project status and in accordance with the MCP. The Site will also be linked under RTN 4-15685 and become part of the Special Project.

(f) Such Other Information that the Department May Deem Appropriate and Necessary

Please refer to Attachment C for the Imminent Hazard Evaluation and Attachment B for the results of laboratory analyses from TRC's investigation of the RG-ROW-2 area.

Public Involvement

As required by 310 CMR 40.1403(3)(b) and (c), the Mayor and the Board of Health for the City of New Bedford have been notified of the IRA activities and the availability of this IRA Completion Statement. Copies of the notification letters sent to the Mayor and Board of Health are provided as Attachment D.

(g) LSP Opinion

The objective of this IRA was to assess the surface soil PCB impact at sample location RG-ROW-2 as a follow-up to MassDEP orally-approved IRA activities initiated April 14, 2011. This work has been completed. The diagnosis, remedy, and closure of the release condition will be addressed as part of the comprehensive response actions for the Nemasket Street Lot and in accordance with the MCP.

This IRA Completion Report has been prepared in accordance with 310 CMR 40.0427 as set forth in the MCP.

David M. Sullivan

David M. Sullivan, LSP, CHMM
TRC Environmental Corporation
Licensed Site Professional No. 1488

6/8/2011

Date



Stamp

III. REFERENCES USED TO PREPARE THIS IRA PLAN

MassGIS 2008 Massachusetts Geographic Information System (MassGIS), On-line MassDEP Priority Resource Map. Accessed May 21, 2009.
<http://maps.massgis.state.ma.us/21e/viewer.htm>

TABLES

Table 1
Summary of Analytical Results for Soil Samples
Ruggles Street Right-of-Way
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						RG-ROW-2					RG-ROW-3			
		Sample Depth (ft.):						0-1	1-3	1-3	3-5	8-9	0-1	1-3	5-7	7-8
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA	4/1/2011	4/1/2011	4/1/2011	4/1/2011	4/1/2011	4/1/2011	4/1/2011	4/1/2011	4/1/2011
PAHs (mg/kg)	Acenaphthene	1,000	1,000	3,000	3,000	4	N/A	3.3	1.9	2.5	1.3	0.30 U	0.19 U	5.4	2.3	0.24 U
	Acenaphthylene	600	10	600	10	1	N/A	0.43 U	1.9	3.1	0.50	0.30 U	0.19 U	0.45 U	0.91 U	0.24 U
	Anthracene	1,000	1,000	3,000	3,000	1,000	N/A	5.3	15	17	8.6	0.30 U	0.19 U	11	5.1	0.24 U
	Benzo(a)anthracene	7	7	40	40	7	N/A	13	24	22	8.3	0.30 U	0.47	29	12	0.24 U
	Benzo(a)pyrene	2	2	4	4	2	N/A	11	19	18	6.4	0.30 U	0.51	27	11	0.24 U
	Benzo(b)fluoranthene	7	7	40	40	7	N/A	14	22	21	7.8	0.30 U	0.76	35	14	0.24 U
	Benzo(g,h,i)perylene	1,000	1,000	3,000	3,000	1,000	N/A	4.3	4.9	5.9	1.9	0.30 U	0.19 U	9.2	5.3	0.24 U
	Benzo(k)fluoranthene	70	70	400	400	70	N/A	6.6	9.3	10	3.2	0.30 U	0.30	13	5.3	0.24 U
	Chrysene	70	70	400	400	70	N/A	12	22	20	7.3	0.30 U	0.48	29	12	0.24 U
	Dibenz(a,h)anthracene	0.7	0.7	4	4	0.7	N/A	1.3	1.5	1.8	0.59	0.30 U	0.19 U	2.5	1.5	0.24 U
	Fluoranthene	1,000	1,000	3,000	3,000	1,000	N/A	29	61	67	25	0.30 U	1.1	80	29	0.24 U
	Fluorene	1,000	1,000	3,000	3,000	1,000	N/A	2.7	3.5	5.1	2.2	0.30 U	0.19 U	4.5	2.7	0.24 U
	Indeno(1,2,3-cd)pyrene	7	7	40	40	7	N/A	5.5	6.7	8.0	2.6	0.30 U	0.21	19	6.6	0.24 U
	2-Methylnaphthalene	80	300	80	500	0.7	N/A	0.86	0.65	1.0	0.49	0.30 U	0.19 U	0.96	0.91 U	0.24 U
	Naphthalene	40	500	40	1,000	4	N/A	1.2	0.64	0.91	0.25	0.30 U	0.19 U	1.2	1.3	0.24 U
	Phenanthrene	500	500	1,000	1,000	10	N/A	20	65	63	31	0.30 U	0.60	53	22	0.24 U
	Pyrene	1,000	1,000	3,000	3,000	1,000	N/A	21	48	39	16	0.30 U	0.57	51	18	0.24 U
	PCBs (mg/kg)	Aroclor 1016	2	2	3	3	2	1	0.340 U	0.123 U	0.184 U	0.0560 U	0.0594 U	0.0568 U	0.250 U	0.673 U
Aroclor 1221		2	2	3	3	2	1	0.340 U	0.123 U	0.184 U	0.0560 U	0.0594 U	0.0568 U	0.250 U	0.673 U	0.0640 U
Aroclor 1232		2	2	3	3	2	1	0.340 U	0.123 U	0.184 U	0.0560 U	0.0594 U	0.0568 U	0.250 U	0.673 U	0.0640 U
Aroclor 1242		2	2	3	3	2	1	0.340 U	0.123 U	0.184 U	0.0560 U	0.0594 U	0.0568 U	0.250 U	0.673 U	0.0640 U
Aroclor 1248		2	2	3	3	2	1	0.340 U	0.123 U	0.184 U	0.0560 U	0.0594 U	0.0568 U	2.48 J	0.673 U	0.0640 U
Aroclor 1254		2	2	3	3	2	1	10.0 J	2.80 J	4.04 J	0.108 J	0.163 J	0.196 J	6.24 J	25.1 J	0.0640 U
Aroclor 1260		2	2	3	3	2	1	1.61 J	0.536 J	0.818 J	0.0560 U	0.0594 U	0.0568 U	1.24 J	3.42 J	0.0640 U
Aroclor 1262		2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1268		2	2	3	3	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		2	2	3	3	2	1	11.61 J	3.336 J	4.858 J	0.108 J	0.163 J	0.196 J	9.96 J	28.52 J	0.0640 U
Metals, total (mg/kg)	Antimony	20	20	30	30	20	N/A	3.2 U	3.1 U	2.9 U	2.7 U	4.4 U	3.0 U	3.2 U	3.1 U	3.4 U
	Arsenic	20	20	20	20	20	N/A	15	6.7	2.9 U	2.6 U	4.4 U	3.0 U	3.2 U	9.4	3.4 U
	Barium	1,000	1,000	3,000	3,000	1,000	N/A	950	540	23	98	80	39	240	530	27
	Beryllium	100	100	200	200	100	N/A	0.32 U	0.31 U	0.29 U	0.26 U	0.44 U	0.30 U	0.32 U	0.31 U	0.34 U
	Cadmium	2	2	30	30	2	N/A	3.1	2.0	0.29 U	0.31	0.52	0.30 U	0.69	2.1	0.34 U
	Chromium	30	30	200	200	30	N/A	140	38	4.8	8.1	12	15	55	44	5.8
	Lead	300	300	300	300	300	N/A	740	1,000	12	110	71	36	320	710	14
	Mercury	20	20	30	30	20	N/A	1.8	0.94	0.69	0.10	0.11	0.042	0.42	0.99	0.068
	Nickel	20	20	700	700	20	N/A	41	16	3.2	3.8	6.4	8.8	55	34	3.6
	Selenium	400	400	800	800	400	N/A	6.5 U	6.2 U	5.7 U	5.3 U	8.8 U	6.0 U	6.4 U	6.3 U	6.8 U
	Silver	100	100	200	200	100	N/A	0.65 U	0.62 U	0.57 U	0.53 U	0.88 U	0.60 U	0.64 U	0.63 U	0.68 U
	Thallium	8	8	60	60	8	N/A	3.2 U	3.1 U	2.9 U	2.7 U	4.4 U	3.0 U	3.2 U	3.1 U	3.4 U
	Vanadium	600	600	1,000	1,000	600	N/A	83	32	20	11	16	15	37	32	21
	Zinc	2,500	2,500	3,000	3,000	2,500	N/A	780	380	37	64	270	40	310	510	39

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

N/A - Not applicable.

R - Rejected data point due to matrix spike recoveries <10%.

U - Compound was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold and shaded type** exceed one or more of the listed MassDEP Method 1 standards.

Values shown in **Bold and shaded type** exceed TSCA but are less than the listed Method 1 standards.

PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purpose only.

Table 2
Summary of Analytical Results for Groundwater Samples
Nemasket Street Lot
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Date:			MW-37	MW-38	MW-39	
		GW-1	GW-2	GW-3	1/13/2011	1/13/2011	1/13/2011	1/13/2011 Field Dup
PAHs (ug/L)	Acenaphthene	20	NS	6,000	5.0 U	5.0 U	5.0 U	5.0 U
	Acenaphthylene	30	10,000	40	5.0 U	5.0 U	5.0 U	5.0 U
	Anthracene	60	NS	30	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(a)anthracene	1.0	NS	1,000	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(a)pyrene	0.2	NS	500	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(b)fluoranthene	1.0	NS	400	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(g,h,i)perylene	50	NS	20	5.0 U	5.0 U	5.0 U	5.0 U
	Benzo(k)fluoranthene	1.0	NS	100	5.0 U	5.0 U	5.0 U	5.0 U
	Chrysene	2.0	NS	70	5.0 U	5.0 U	5.0 U	5.0 U
	Dibenz(a,h)anthracene	0.5	NS	40	5.0 U	5.0 U	5.0 U	5.0 U
	Fluoranthene	90	NS	200	5.0 U	5.0 U	5.0 U	5.0 U
	Fluorene	30	NS	40	5.0 U	5.0 U	5.0 U	5.0 U
	Indeno(1,2,3-cd)pyrene	0.5	NS	100	5.0 U	5.0 U	5.0 U	5.0 U
	2-Methylnaphthalene	10	2,000	20,000	5.0 U	5.0 U	5.0 U	5.0 U
	Naphthalene	140	1,000	20,000	5.0 U	5.0 U	5.0 U	5.0 U
	Phenanthrene	40	NS	10,000	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	80	NS	20	5.0 U	5.0 U	5.0 U	5.0 U	
PCBs (ug/L)	Aroclor 1016	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Aroclor 1221	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Aroclor 1232	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Aroclor 1242	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Aroclor 1248	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Aroclor 1254	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Aroclor 1260	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
	Total PCBs	0.5	5	10	0.0500 U	0.0500 U	0.0500 U	NA
Metals, total (ug/L)	Antimony	6	NS	8,000	1.0 U	1.0 U	1.0 U	1.0 U
	Arsenic	10	NS	900	0.40 U	0.96	0.40 U	0.40 U
	Barium	2,000	NS	50,000	170	240	51	49
	Beryllium	4	NS	200	0.40 U	0.40 U	0.40 U	0.40 U
	Cadmium	5	NS	4	0.50 U	0.50 U	0.50 U	0.50 U
	Chromium	100	NS	300	1.0 U	1.0 U	1.4	1.0 U
	Lead	15	NS	10	1.0 U	1.0 U	1.0 U	1.0 U
	Mercury	2	NS	20	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	100	NS	200	8.9	6.1	5.0 U	5.5
	Selenium	50	NS	100	5.0 U	5.0 U	5.0 U	5.0 U
	Silver	100	NS	7	0.50 U	0.50 U	0.50 U	0.50 U
	Thallium	2	NS	3,000	0.20 U	0.20 U	0.20 U	0.20 U
	Vanadium	30	NS	4,000	5.0 U	5.0 U	5.0 U	5.0 U
	Zinc	5,000	NS	900	45	37	24	24
Metals, dissolved (ug/L)	Antimony	6	NS	8,000	1.0 U	1.0 U	1.0 U	1.0 U
	Arsenic	10	NS	900	0.40 U	0.93	0.40 U	0.40 U
	Barium	2,000	NS	50,000	150	240	47	49
	Beryllium	4	NS	200	0.40 U	0.40 U	0.40 U	0.40 U
	Cadmium	5	NS	4	0.50 U	0.50 U	0.50 U	0.50 U
	Chromium	100	NS	300	1.0 U	1.0 U	1.0 U	1.0 U

Table 2
Summary of Analytical Results for Groundwater Samples
Nemasket Street Lot
New Bedford, Massachusetts

Analysis	Analyte	Sample ID: Sample Date:			MW-37	MW-38	MW-39	
		GW-1	GW-2	GW-3	1/13/2011	1/13/2011	1/13/2011	1/13/2011 Field Dup
	Lead	15	NS	10	1.0 U	1.0 U	1.0 U	1.0 U
	Mercury	2	NS	20	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	100	NS	200	12	6.2	5.0 U	5.0 U
	Selenium	50	NS	100	5.0 U	5.0 U	5.0 U	5.0 U
	Silver	100	NS	7	0.50 U	0.50 U	0.50 U	0.50 U
	Thallium	2	NS	3,000	0.20 U	0.20 U	0.20 U	0.20 U
	Vanadium	30	NS	4,000	5.0 U	5.0 U	5.0 U	5.0 U
	Zinc	5,000	NS	900	47	30	19	23

Notes:

ug/L - micrograms per liter.

NA - Sample not analyzed for the listed analyte.

U - Compound was not detected at specified quantitation limit.


Values in **Bold** indicate the compound was detected.

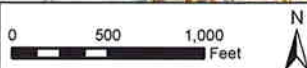
PAHs - Polynuclear Aromatic Hydrocarbons.

PCBs - Polychlorinated Biphenyls.

FIGURES



 Approximate Site Boundary



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
978-970-5600

MASSACHUSETTS



SITE LOCATION MAP

**RUGGLES STREET
RIGHT-OF-WAY
NEW BEDFORD, MA**

Base map: USGS 7.5 Minute Topographic Quadrangle: New Bedford

FIGURE 1

JUNE 2011

NEMASKET STREET LOT

HATHAWAY BOULEVARD

RS-4

RS-3

RS-2

RS-1

RG-ROW-3

RG-ROW-2

RG-ROW-1

RUGGLES STREET

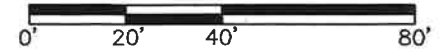
128

118

108

98

APPROXIMATE GRAPHIC SCALE



LEGEND:



TRC SOIL BORING LOCATION



BETA SOIL BORING LOCATION



LOT LINES



PROPERTY LINE

ENVIRONMENTAL INVESTIGATION AND RELATED ENVIRONMENTAL CONSULTING SERVICES
NEW BEDFORD HIGH SCHOOL & SURROUNDING NEIGHBORHOOD
NEW BEDFORD, MASSACHUSETTS

RUGGLES STREET
RIGHT-OF-WAY SAMPLE LOCATIONS



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

FIGURE

2

DRAWN BY: HWB

DATE:

CHECKED BY: JBS

JUNE 2011

ATTACHMENT A
SOIL BORING LOGS



Wannalancit Mills
 650 Suffolk Street
 Lowell MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford SCREEN TYPE/SLOT N/A
 BORING/WELL NUMBER RG-ROW-1 FILTER PACK TYPE N/A
 TRC GEOLOGIST J. Fiero SEAL TYPE N/A
 DRILLING CONTRACTOR/FOREMAN New England GeoTech/John Halaburda DEPTH TO WATER (Approximate Feet) _____
 DATE DRILLED 3/24/2011 TOTAL DEPTH (Feet) 12
 LOCATION Nemasket Lot - NW corner of Ruggles and Hathaway GROUND ELEVATION (Feet) 90.98
 SAMPLING METHOD 48" Macrocore REFERENCE ELEVATION (Feet) _____
 DRILLING METHOD AMS 9100 VTR Track Rig
 NOTES Sampled for MCP 14 Metals + Hg, PAHs and PCBs

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1		48/34	S-1		0-1' Brown to dark-brown SILT and LOAM, trace glass.	0.0	RG-ROW-1 (0-1) 1400	No Monitoring Well Installed
2					1-4' Brown to dark-brown SILT, some fine sand, little-some medium-coarse sand and 1/8-1/4" sub-angular-angular gravel, little-trace fill (concrete, brick, glass, coal, coal ash, slag, asphalt, rubber).		RG-ROW-1 (1-3) 1405	
3								
4		48/38	S-2		4-8' Brown to dark-brown SILT, some fine sand, little-some medium-coarse sand and 1/8-1/4" sub-angular-angular gravel, little-trace fill (concrete, brick, glass, coal, coal ash, slag, asphalt, rubber).	0.2		
5								
6							RG-ROW-1 (5-7) 1410	
7								
8		48/48	S-3		8-9' Brown to dark-brown SILT, some fine sand, little-some medium-coarse sand and 1/8-1/4" sub-angular-angular gravel, little-trace fill (concrete, brick, glass, coal, coal ash, slag, asphalt, rubber).	0.0		
9								
10					9-11.5' Black to brown PEAT, moist.		RG-ROW-1 (9-10.5) 1415	
11								
12					11.5-12' Gray fine SAND, wet.		RG-ROW-1 (10.5-12) 1420 Hold	
					End of Boring @ 12 feet			



650 Suffolk Street
 Lowell, MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford SCREEN TYPE/SLOT N/A
 BORING/WELL NUMBER RG-ROW-2 FILTER PACK TYPE N/A
 TRC GEOLOGIST J. Fiero SEAL TYPE N/A
 DRILLING CONTRACTOR/FOREMAN New England GeoTech/Steve Perry DEPTH TO WATER (Approximate Feet) _____
 DATE DRILLED 4/1/2011 TOTAL DEPTH (Feet) 10
 LOCATION Nemasket Lot - Approximately 100' West of RG-ROW-1 GROUND ELEVATION (Feet) _____
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet) _____
 DRILLING METHOD Direct Push 6620 DT Track Rig
 NOTES Sampled for MCP 14 Metals + Hg, PAHs and PCBs

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1			60/47 S-1		0-0.25' Brown SILT and LOAM.	3.2	RG-ROW-2 (0-1) 1115	No Monitoring Well Installed
2					0.25-3.25' Brown SILT, little fine-coarse sand, 1/8-1/2" sub-angular gravel and fill (glass, metal, slag).		RG-ROW-2 (1-3) 1120 DUP-3 1220	
3					3.25-3.5' ASPHALT fragments.			
4					3.5-5' Brown SILT, some fine sand, little-some medium-coarse sand and 1/8-3/4" sub-rounded to sub-angular gravel.		RG-ROW-2 (3-5) 1125 Plus MS/MSD/DUP	
5			60/39 S-2		5-8' Brown SILT, some fine-coarse sand, some-little 1/2-1.5" sub-rounded gravel, wet-saturated.	0.0		
6					8-9' Brown-grey fine-coarse SAND, little silt and 1/4-1/2" sub-rounded to sub-angular gravel.		RG-ROW-2 (8-9) 1130	
7					9-10' Black PEAT.		RG-ROW-2 (9-10) 1135	
8								
9								
10					End of Boring @ 10 feet			



650 Suffolk Street
 Lowell, MA
 Telephone: 978-970-5600
 Fax: 978-453-1995

BORING/WELL CONSTRUCTION LOG

CLIENT/PROJECT NUMBER 115058/City of New Bedford SCREEN TYPE/SLOT N/A
 BORING/WELL NUMBER RG-ROW-3 FILTER PACK TYPE N/A
 TRC GEOLOGIST J. Fiero SEAL TYPE N/A
 DRILLING CONTRACTOR/FOREMAN New England GeoTech/Steve Perry DEPTH TO WATER (Approximate Feet) _____
 DATE DRILLED 4/1/2011 TOTAL DEPTH (Feet) 10
 LOCATION Nemasket Lot - Approximately 100' West of RG-ROW-2 GROUND ELEVATION (Feet) _____
 SAMPLING METHOD 60" Macrocore REFERENCE ELEVATION (Feet) _____
 DRILLING METHOD Direct Push 6620 DT Track Rig
 NOTES Sampled for MCP 14 Metals + Hg, PAHs and PCBs

DEPTH (ft. BGL)	BLOW COUNTS	PEN/REC (INCHES)	CORE #	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	Field Testing (ppm)	SAMPLE ID/TIME	WELL DIAGRAM
1		60/43	S-1		0-0.2' Brown SANDY LOAM, little medium-coarse sand and 1/2" sub-rounded gravel.	0.0	RG-ROW-3 (0-1) 1145	No Monitoring Well Installed
2					0.2-1.5' Brown-gray fine-coarse SAND, little silt, coarser with depth.			
					1.5-2' Brown-gray coarse SAND and fine GRAVEL.			
					2-3' Black SILT.		RG-ROW-3 (1-3) 1150	
3					3-3.25' Black SILT, little fill (porcelain and glass fragments).			
4					3.25-5' Brown-black SILT, little-trace fine sand and fill (glass, asphalt fragments, metal).			
5		60/50	S-2		5-7.5' Brown-black SILT, little-trace fine sand and fill (glass, asphalt fragments, metal).	4.8	RG-ROW-3 (5-7) 1155	
6					7.5-8.5' Black organic SILT.	0.0	RG-ROW-2 (7-8) 1200	
7					8.5-10' Brown fine SAND, granite cobble fragment in tip, saturated.	0.0	RG-ROW-2 (8-9) 1205	
8								
9								
10					End of Boring @ 10 feet			

ATTACHMENT B
LABORATORY DATA REPORTS



Date: March 30, 2011-B

NEA PACE Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: NEMASKET LOT
Sampling Date(s): March 24, 2011
NEA Report ID: 11030199
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis - SW-846 8082

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. This report shall not be reproduced, except in full, without the written consent of NEA - A Division of Pace Analytical Services, Inc.

A handwritten signature in black ink that reads 'Robert E. Wagner'.

Robert E. Wagner
Laboratory Director



Certifications: NY (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

NEA - A Division of Pace Analytical Services | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.nealab.com | Email: information@nealab.com

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CASE NARRATIVE

March 31, 2011

CASE NARRATIVE

This data package (NEA SDG ID: 11030199) consists of 17 soil samples received on 03/26/2011. The samples are from Project Name: NEMASKET LOT.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AO03073	SB-NM-26 1-3'	03/24/2011 11:35
AO03074	SB-NM-26 5-7'	03/24/2011 11:40
AO03075	SB-NM-26 11-12'	03/24/2011 11:45
AO03076	SB-NM-27 0-1'	03/24/2011 12:00
AO03077	SB-NM-27 1-3'	03/24/2011 12:05
AO03078	SB-NM-27 5-7'	03/24/2011 12:10
AO03079	SB-NM-27 13-14.5'	03/24/2011 12:15
AO03080	SB-NM-27 14.5-16'*	03/24/2011 12:20
AO03081	SB-NM-28 0-1'	03/24/2011 12:25
AO03082	SB-NM-28 1-3'	03/24/2011 12:30
AO03083	SB-NM-28 5-7'	03/24/2011 12:35
AO03084	SB-NM-28 12-14'	03/24/2011 12:40
AO03085	SB-NM-28 14-16'*	03/24/2011 12:45
AO03086	SB-NM-29 0-1'	03/24/2011 13:00
AO03087	SB-NM-29 1-3'	03/24/2011 13:05
AO03088	SB-NM-29 5-7'	03/24/2011 13:10
AO03089	SB-NM-29 13-14'	03/24/2011 13:15
AO03090	SB-NM-29 14-16'*	03/24/2011 13:20
AO03091	RG-ROW-1 0-1'	03/24/2011 14:00
AO03092	RG-ROW-1 1-3'	03/24/2011 14:05

*Indicates on hold per client request.

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 03/26/2011.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 4.7 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

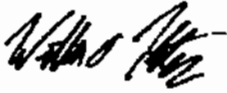
Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1260 were flagged (AG) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The surrogates DCBP and TCMX were diluted out for several samples (LAB ID: AO03073, AO03076, AO03078, AO03086, AO03087, and AO03088) due to the high concentration of PCB in the samples. Please see associated Form 2 for details.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the RL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



William A. Kotas
Client Services Manager



SAMPLE CHAIN OF CUSTODY

DISPOSAL REQUIREMENTS: (To be filled in by Client)

RETURN TO CLIENT
 DISPOSAL BY NORTHEAST ANALYTICAL
 ARCHIVAL BY NORTHEAST ANALYTICAL
 Additional charge incurred for disposal (if hazardous) or archival. Call for details.

PROJECT/PROJECT NAME:
1.15058 Nemascket PO# 32047

PROJECT LOCATION (CITY/STATE) ADDRESS:
New Bedford MA
Nemascket

REQUIRED TURN AROUND TIME:
5-day

NAME OF COURIER (IF USED):
FedEx

CLIENT REPORTS TO BE SENT TO:
TRC Environmental

LAB # <11030199P1>

PROJECT/PROJECT NAME:
1.15058 Nemascket PO# 32047

PROJECT LOCATION (CITY/STATE) ADDRESS:
New Bedford MA
Nemascket

REQUIRED TURN AROUND TIME:
5-day

NAME OF COURIER (IF USED):
FedEx

CLIENT REPORTS TO BE SENT TO:
TRC Environmental

PROJECT/PROJECT NAME:
1.15058 Nemascket PO# 32047

PROJECT LOCATION (CITY/STATE) ADDRESS:
New Bedford MA
Nemascket

REQUIRED TURN AROUND TIME:
5-day

NAME OF COURIER (IF USED):
FedEx

LAB # <11030199P1>

PROJECT/PROJECT NAME:
1.15058 Nemascket PO# 32047

PROJECT LOCATION (CITY/STATE) ADDRESS:
New Bedford MA
Nemascket

REQUIRED TURN AROUND TIME:
5-day

NAME OF COURIER (IF USED):
FedEx

CLIENT REPORTS TO BE SENT TO:
TRC Environmental

PROJECT/PROJECT NAME:
1.15058 Nemascket PO# 32047

PROJECT LOCATION (CITY/STATE) ADDRESS:
New Bedford MA
Nemascket

REQUIRED TURN AROUND TIME:
5-day

NAME OF COURIER (IF USED):
FedEx

SAMPLE ID	DATE	TIME	MATRIX	GRAB/COMP	LAB SAMPLE ID (NEA USE ONLY)	ELECTRONIC RESULTS FORMAT:		TEMP	COG TAPE	COG DISCREPANCIES	RECEIVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME
						PDF	EXCEL (CSV)								
SB-NM-26 1-3'	3/24/11	11:35	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>	4.1			FedEx	JASON FIERO	JASON FIERO		
SB-NM-26 5-7'	3/24/11	11:40	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-26 11-12'	3/24/11	11:45	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-27 0-1'	3/24/11	12:00	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-27 1-3'	3/24/11	12:05	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-27 5-7'	3/24/11	12:10	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-27 13-14.5'	3/24/11	12:15	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-27 14.5-16'	3/24/11	12:20	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-28 0-1'	3/24/11	12:25	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		
SB-NM-28 1-3'	3/24/11	12:30	S	Grab		<input type="checkbox"/>	<input type="checkbox"/>				FedEx	JASON FIERO	JASON FIERO		

ENTER ANALYSIS AND METHOD NUMBER REQUESTED	PRESERVATIVE CODE	BOTTLE TYPE	BOTTLE SIZE	PRESERVATIVE KEY
PCBs	0	G	4 oz	0 - NONE 1 - HCL 2 - HNO3 3 - H2SO4 4 - NaOH 5 - Zn, Acetate 6 - MeOH 7 - NaHSO4 8 - Other

NUMBER OF CONTAINERS	REMARKS
1	X A003073
1	X A003074
1	X A003075
1	X A003076
1	X A003077
1	X A003078
1	X A003079
1	H HOLD A003080
1	X A003081
1	X A003082

RECEIVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME
RECEIVED BY	<i>K. Koughten</i>	K. Koughten		
RECEIVED BY	<i>JASON FIERO</i>	JASON FIERO		
RECEIVED BY	<i>TRC</i>	TRC		3/25/11 11:01

RECEIVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME
RECEIVED BY	<i>FedEx</i>	FedEx		

RECEIVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME
RECEIVED BY	<i>FedEx</i>	FedEx		

RECEIVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME
RECEIVED BY	<i>FedEx</i>	FedEx		

RECEIVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME
RECEIVED BY	<i>FedEx</i>	FedEx		

* CLP LIKE DATA PACKAGE ADDITIONAL COST

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information@nealab.com

PAGE 4 OF 5
 LRF # <11030199P2>

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- RETURN TO CLIENT
 - DISPOSAL BY NORTHEAST ANALYTICAL
 - ARCHIVAL BY NORTHEAST ANALYTICAL
- Additional charges incurred for disposal (if hazardous) or archival. Call for details.

PROJECT/PROJECT NAME: 115058 Nemasket PO# 32047		PROJECT LOCATION (CITY/STATE) ADDRESS: New Bedford MA Nemasket		PRESERVATIVE CODE: 0		ENTER ANALYSIS AND METHOD NUMBER REQUESTED		PRESERVATIVE KEY: 0 - NONE 1 - HCL 2 - HNO3 3 - H2SO4 4 - NaOH 5 - Zn, Acetate 6 - MeOH 7 - NaHSO4 8 - Other	
PROJECT MANAGER: David Sullivan		PHONE: 978-656-3565 / 617-462-8090		BOTTLE TYPE: G		BOTTLE SIZE: 4 OZ			
SAMPLER BY: (Please Print) Jason Fiero / Zack Richards		REQUIRED TURN AROUND TIME: 5-day		NAME OF COURIER (IF USED): FedEx		NUMBER OF CONTAINERS		REMARKS:	
SAMPLING FIRM: TRC Environmental		Data Report: <input type="checkbox"/> CLP* <input type="checkbox"/> Certificates Only		LAB SAMPLE ID (NEA USE ONLY)		PC8s			
ELECTRONIC RESULTS FORMAT: <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL (.CSV) <input type="checkbox"/>		E-MAIL ADDRESS: dsullivan@trcsolutions.com		GRAB/COMP					
FAXED RESULTS <input type="checkbox"/> FAX #:		DATE		TIME		MATRIX		S	
SAMPLE ID		3/24/11		12:35		S		Grab	
SB-NM-28 5-7'		3/24/11		12:40		S		Grab	
SB-NM-28 12-14'		3/24/11		12:45		S		Grab	
SB-NM-29 0-1'		3/24/11		13:00		S		Grab	
SB-NM-29 1-3'		3/24/11		13:05		S		Grab	
SB-NM-29 5-7'		3/24/11		13:10		S		Grab	
SB-NM-29 13-14'		3/24/11		13:15		S		Grab	
SB-NM-29 14-16'		3/24/11		13:20		S		Grab	
RG-ROW-1 0-1'		3/24/11		14:00		S		Grab	
RG-ROW-1 1-3'		3/24/11		14:05		S		Grab	
AMBIENT OR (CHILLED)		TEMP: 4.7		DOE TAPE: (Y) N		DOE DISCREPANCIES: Y (N)		PROPERLY PRESERVED: (Y) N	
RECEIVED BROKEN OR LEAKING: Y (N)		RECEIVED BY: <i>Jason Fiero</i>		SIGNATURE: <i>Jason Fiero</i>		PRINTED NAME: JASON FIERO		COMPANY: TRC	
DATE/TIME: 3/25/11 14:30		RECEIVED BY: <i>FedEx</i>		SIGNATURE: <i>FedEx</i>		PRINTED NAME: FedEx		COMPANY: FedEx	
DATE/TIME: 3/26/11 01		RECEIVED BY: <i>TRC</i>		SIGNATURE: <i>TRC</i>		PRINTED NAME: TRC		COMPANY: TRC	
DATE/TIME: 3/26/11 01		RECEIVED BY: <i>TRC</i>		SIGNATURE: <i>TRC</i>		PRINTED NAME: TRC		COMPANY: TRC	

* CLP LIKE DATA PACKAGE ADDITIONAL COST

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Batch ID: 13419

Prep Date: 03/28/11

Initial for required Clean Up Steps

Prep ID	NEA Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time On - 2	Extract Time Off - 2	Date Cleaned (M/M/DD)	TJH	Date TBA Cleaned (M/M/DD)	TJH	Date Florisil Shake (M/M/DD)	TJH	Date Hg Shake (M/M/DD)	Final Ext. Vol (mL)	Date Conc (M/M/DD)	Comments
1	130091	PBLA-78	Soil		E PCB S	SOX	N/A	10.257	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
2	130090	LCS-78	Soil		E PCB S	SOX	N/A	10.077	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
3	130073	11030196-01	Soil		E PCB S	SOX	73.3	10.216	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
4	130074	11030196-02	Soil		E PCB S	SOX	75.6	10.344	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
5	130075	11030196-03	Soil		E PCB S	SOX	25.5	10.328	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
6	130076	11030196-04	Soil		E PCB S	SOX	72.1	10.058	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
7	130077	11030196-05	Soil		E PCB S	SOX	78.9	10.190	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
8	130078	11030196-06	Soil		E PCB S	SOX	63.4	10.339	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
9	130079	11030196-07	Soil		E PCB S	SOX	22.9	10.308	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
10	130080	11030196-08	Soil		E PCB S	SOX	68.7	10.355	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
11	130081	11030196-09	Soil		E PCB S	SOX	82.7	10.447	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
12	130082	11030196-10	Soil		E PCB S	SOX	75.6	10.062	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
13	130083	11030196-11	Soil		E PCB S	SOX	21.6	10.202	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
14	130084	11030196-12	Soil		E PCB S	SOX	71.9	10.272	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
15	130085	11030196-13	Soil		E PCB S	SOX	74.2	10.106	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
16	130086	11030196-14	Soil		E PCB S	SOX	69.8	10.251	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
17	130087	11030196-15	Soil		E PCB S	SOX	42.3	10.110	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
18	130088	11030196-16	Soil		E PCB S	SOX	72.0	10.576	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		
19	130089	11030196-17	Soil		E PCB S	SOX	83.1	10.277	15:00	08:00	NA	03/29	03/29	03/29	NA	03/29	NA	25	03/29		

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Main Lab)	E49039	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexane	DC321	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sodium Sulfate	J24624	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Acetone (Dewar) CURRENT	DD070	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBA Solution (Current)	122710MLB2PA5D	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.5ppm TCMX/5.0ppm DCBP in hexane	011111B029P174A1-10	500	0.5/5.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aroclor 1242 @ 12.5PPM SPIKE	021011B030P012B	1000	12.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10% Florisil MAIN LAB	032411MLB2P55D	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Craig Petrus

Jillian Grygas

Analyst Review: Craig Petrus

Peer Review: Jill Grygas

Craig Petrus

Jill Grygas

PCB SCREEN SHEET

LRF: 11030199

Batch ID: 13419

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Batch Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AO03073B	GC21B-1371-12	Soil	03/28/11	10.257	N/A	10.257	25	25	0.012775	1	NA	25x	Jared Acker
	GC21F-1438-12	Soil	03/28/11	10.257	N/A	10.257	25	25	0.012775	1	NA	25x	Jared Acker
AO03073L	GC21B-1371-13	Soil	03/28/11	10.077	N/A	10.077	25	25	0.60146	1	NA	25x	Jared Acker
	GC21F-1438-13	Soil	03/28/11	10.077	N/A	10.077	25	25	0.60146	1	NA	25x	Jared Acker
AO03073	GC21B-1371-14	Soil	03/28/11	10.218	75.3	7.4888	25	250	1.6477	30	1>10 1>3	750x	Jared Acker
	GC21F-1438-14	Soil	03/28/11	10.218	75.3	7.4888	25	250	1.6477	30	1>10 1>3	750x	Jared Acker
AO03074	GC21B-1371-15	Soil	03/28/11	10.384	75.6	7.8503	25	250	0.11619	2	2>4	50x	Jared Acker
	GC21F-1438-15	Soil	03/28/11	10.384	75.6	7.8503	25	250	0.11619	2	2>4	50x	Jared Acker
AO03075	GC21B-1371-16	Soil	03/28/11	10.326	25.5	2.6331	25	250	0.0027566	1	NA	25x	Jared Acker
	GC21F-1438-16	Soil	03/28/11	10.326	25.5	2.6331	25	250	0.0027566	1	NA	25x	Jared Acker
AO03076	GC21B-1371-17	Soil	03/28/11	10.058	72.1	7.2518	25	250	0.33104	7	1>7	175x	Jared Acker
	GC21F-1438-17	Soil	03/28/11	10.058	72.1	7.2518	25	250	0.33104	7	1>7	175x	Jared Acker
AO03077	GC21B-1371-18	Soil	03/28/11	10.190	78.9	8.0399	25	250	0.20262	4	1>4	100x	Jared Acker
	GC21F-1438-18	Soil	03/28/11	10.190	78.9	8.0399	25	250	0.20262	4	1>4	100x	Jared Acker
AO03078	GC21B-1371-19	Soil	03/28/11	10.338	65.4	6.5543	25	250	0.39328	10	1>10	250x	Jared Acker
	GC21F-1438-19	Soil	03/28/11	10.338	65.4	6.5543	25	250	0.39328	10	1>10	250x	Jared Acker
AO03079	GC21B-1371-20	Soil	03/28/11	10.306	22.9	2.3601	25	250	0.010068	1	NA	25x	Jared Acker
	GC21F-1438-20	Soil	03/28/11	10.306	22.9	2.3601	25	250	0.010068	1	NA	25x	Jared Acker
AO03081	GC21B-1371-21	Soil	03/28/11	10.355	68.7	7.1139	25	250	0.23751	5	1>5	125x	Jared Acker
	GC21F-1438-21	Soil	03/28/11	10.355	68.7	7.1139	25	250	0.23751	5	1>5	125x	Jared Acker
AO03082	GC21B-1371-22	Soil	03/28/11	10.447	82.7	8.6397	25	250	0.10957	2	2>4	50x	Jared Acker
	GC21F-1438-22	Soil	03/28/11	10.447	82.7	8.6397	25	250	0.10957	2	2>4	50x	Jared Acker
AO03083	GC21B-1371-23	Soil	03/28/11	10.062	75.6	7.6069	25	250	0.21817	4	1>4	100x	Jared Acker
	GC21F-1438-23	Soil	03/28/11	10.062	75.6	7.6069	25	250	0.21817	4	1>4	100x	Jared Acker
AO03084	GC21B-1371-24	Soil	03/28/11	10.202	21.6	2.2036	25	250	0.011085	1	NA	25x	Jared Acker
	GC21F-1438-24	Soil	03/28/11	10.202	21.6	2.2036	25	250	0.011085	1	NA	25x	Jared Acker
AO03086	GC21B-1371-25	Soil	03/28/11	10.202	21.6	2.2036	25	250	0.011085	1	NA	25x	Jared Acker
	GC21F-1438-25	Soil	03/28/11	10.202	21.6	2.2036	25	250	0.011085	1	NA	25x	Jared Acker
AO03087	GC21B-1371-26	Soil	03/28/11	10.272	71.9	7.3856	25	250	0.53539	10	1>10	250x	Jared Acker
	GC21F-1438-26	Soil	03/28/11	10.272	71.9	7.3856	25	250	0.53539	10	1>10	250x	Jared Acker
AO03087	GC21B-1371-27	Soil	03/28/11	10.106	74.2	7.4987	25	250	0.68049	10	1>10	250x	Jared Acker
	GC21F-1438-27	Soil	03/28/11	10.106	74.2	7.4987	25	250	0.68049	10	1>10	250x	Jared Acker
AO03088	GC21B-1371-28	Soil	03/28/11	10.251	69.8	7.1552	25	250	1.0965	20	1>10 2>4	500x	Jared Acker
	GC21F-1438-28	Soil	03/28/11	10.251	69.8	7.1552	25	250	1.0965	20	1>10 2>4	500x	Jared Acker
AO03089	GC21B-1371-29	Soil	03/28/11	10.110	42.3	4.2765	25	250	0.044540	1	NA	25x	Jared Acker
	GC21F-1438-29	Soil	03/28/11	10.110	42.3	4.2765	25	250	0.044540	1	NA	25x	Jared Acker
AO03091	GC21B-1371-30	Soil	03/28/11	10.576	72.0	7.6147	25	250	0.25284	5	1>5	125x	Jared Acker
	GC21F-1438-30	Soil	03/28/11	10.576	72.0	7.6147	25	250	0.25284	5	1>5	125x	Jared Acker
AO03092	GC21B-1371-31	Soil	03/28/11	10.277	83.1	8.5402	25	250	0.060304	1	NA	25x	Jared Acker
	GC21F-1438-31	Soil	03/28/11	10.277	83.1	8.5402	25	250	0.060304	1	NA	25x	Jared Acker

COMMENTS:

Page 1 of 2

PCB SCREEN SHEET

LRF: 11030199

Batch ID: 13419

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
	5C21F-1436-32	Sol	03/28/11	10.277	83.1	8.5402	25	250	0.060304	1	NA	25x	Jared Acker

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COMMENTS: _____

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SURROGATE % RECOVERY SUMMARY

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**2F-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 11030199

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebtron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebtron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-78	AO03073B	GC21F-1438-12	93.6	102					0
PBLK-78	AO03073B	GC21B-1371-12			83.9	90.9			0
LCS-78	AO03073L	GC21F-1438-13	101	109					0
LCS-78	AO03073L	GC21B-1371-13			94.4	97.5			0
11030199-01	AO03073	GC21F-1438-14	1.45 D	1.44 D					0
11030199-01	AO03073	GC21B-1371-14			9.39 D	29.4 D			0
11030199-02	AO03074	GC21F-1438-15	90.0	119					0
11030199-02	AO03074	GC21B-1371-15			81.0	109			0
11030199-03	AO03075	GC21F-1438-16	97.0	109					0
11030199-03	AO03075	GC21B-1371-16			88.5	93.2			0
11030199-04	AO03076	GC21F-1438-17	79.5 D	91.2 D					0
11030199-04	AO03076	GC21B-1371-17			64.9 D	82.9 D			0
11030199-05	AO03077	GC21F-1438-18	95.3	115					0
11030199-05	AO03077	GC21B-1371-18			72.7	108			0
11030199-06	AO03078	GC21F-1438-19	79.8 D	95.8 D					0
11030199-06	AO03078	GC21B-1371-19			79.2 D	94.0 D			0
11030199-07	AO03079	GC21F-1438-20	94.8	102					0
11030199-07	AO03079	GC21B-1371-20			86.6	92.3			0
11030199-09	AO03081	GC21F-1438-22	92.7	89.2					0
11030199-09	AO03081	GC21B-1371-22			73.0	84.1			0
11030199-10	AO03082	GC21F-1438-23	98.5	134					0
11030199-10	AO03082	GC21B-1371-23			93.6	95.4			0
11030199-11	AO03083	GC21F-1438-24	89.3	124					0
11030199-11	AO03083	GC21B-1371-24			70.7	85.1			0
11030199-12	AO03084	GC21F-1438-25	89.7	103					0
11030199-12	AO03084	GC21B-1371-25			85.1	93.2			0
11030199-14	AO03086	GC21F-1438-26	92.3 D	109 D					0
11030199-14	AO03086	GC21B-1371-26			73.9 D	101 D			0

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Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)
 SURR2 = DECACHLOROBIPHENYL (60.0-140)

**2F-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 11030199

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
11030199-15	AO03087	GC21F-1438-27	62.4 D	90.8 D					0
11030199-15	AO03087	GC21B-1371-27			50.8 D	89.9 D			0
11030199-16	AO03088	GC21F-1438-28	46.3 D	64.2 D					0
11030199-16	AO03088	GC21B-1371-28			34.0 D	60.2 D			0
11030199-17	AO03089	GC21F-1438-29	96.7	103					0
11030199-17	AO03089	GC21B-1371-29			83.8	95.6			0
11030199-19	AO03091	GC21F-1438-30	91.6	102					0
11030199-19	AO03091	GC21B-1371-30			77.5	92.3			0
11030199-20	AO03092	GC21F-1438-32	99.2	130					0
11030199-20	AO03092	GC21B-1371-32			96.4	80.0			0

4

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)

SURR2 = DECACHLOROBIPHENYL (60.0-140)

LABORATORY CONTROL SPIKE SUMMARY

5

**3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11030199

LCS ID: LCS-78

Blank Sample ID: PBLK-78

LCS File ID: GC21F-1438-13

Method Blank File ID: GC21F-1438-12

LCS Inj Date: 03/29/2011 18:29:29

Method Blank Inj Date: 03/29/2011 17:56:38

LCS NEA ID No: AO03073L

Method Blank NEA ID No: AO03073B

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.24	1.15	93.1	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

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COMMENTS: _____

**3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11030199

LCS ID: LCS-78

Blank Sample ID: PBLK-78

LCS File ID: GC21B-1371-13

Method Blank File ID: GC21B-1371-12

LCS Inj Date: 03/29/2011 18:29:32

Method Blank Inj Date: 03/29/2011 17:56:42

LCS NEA ID No: AO03073L

Method Blank NEA ID No: AO03073B

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.24	1.11	89.2	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

5

COMMENTS:

METHOD BLANK SUMMARY

**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030199</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-78</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AO03073B</u>
Instrument ID: <u>GC21F</u>	Lab File ID: <u>GC21F-1438-12</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>03/28/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>03/29/2011</u>
	Time Analyzed: <u>17:56:38</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-78(LAB CONTROL SPIKE)	AO03073L	GC21F-1438-13	03/29/2011 18:29:29
SB-NM-26 1-3'	AO03073	GC21F-1438-14	03/29/2011 19:02:20
SB-NM-26 5-7'	AO03074	GC21F-1438-15	03/29/2011 19:35:10
SB-NM-28 11-12'	AO03075	GC21F-1438-18	03/29/2011 20:08:01
SB-NM-27 0-1'	AO03076	GC21F-1438-17	03/29/2011 20:40:53
SB-NM-27 1-3'	AO03077	GC21F-1438-18	03/29/2011 21:13:44
SB-NM-27 5-7'	AO03078	GC21F-1438-19	03/29/2011 21:46:35
SB-NM-27 13-14.5'	AO03079	GC21F-1438-20	03/29/2011 22:19:27
SB-NM-28 0-1'	AO03081	GC21F-1438-22	03/29/2011 23:25:09
SB-NM-28 1-3'	AO03082	GC21F-1438-23	03/29/2011 23:57:59
SB-NM-28 5-7'	AO03083	GC21F-1438-24	03/30/2011 00:30:50
SB-NM-28 12-14'	AO03084	GC21F-1438-25	03/30/2011 01:03:41
SB-NM-29 0-1'	AO03086	GC21F-1438-26	03/30/2011 01:36:32
SB-NM-29 1-3'	AO03087	GC21F-1438-27	03/30/2011 02:09:23
SB-NM-29 5-7'	AO03088	GC21F-1438-28	03/30/2011 02:42:14
SB-NM-29 13-14'	AO03089	GC21F-1438-29	03/30/2011 03:15:05
RG-ROW-1 0-1'	AO03091	GC21F-1438-30	03/30/2011 03:47:56
RG-ROW-1 1-3'	AO03092	GC21F-1438-32	03/30/2011 04:53:38

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**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030199</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-78</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AO03073B</u>
Instrument ID: <u>GC21B</u>	Lab File ID: <u>GC21B-1371-12</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>03/28/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>03/29/2011</u>
	Time Analyzed: <u>17:56:42</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-78(LAB CONTROL SPIKE)	AO03073L	GC21B-1371-13	03/29/2011 18:29:32
SB-NM-26 1-3'	AO03073	GC21B-1371-14	03/29/2011 19:02:23
SB-NM-26 5-7'	AO03074	GC21B-1371-15	03/29/2011 19:35:13
SB-NM-26 11-12'	AO03075	GC21B-1371-16	03/29/2011 20:08:06
SB-NM-27 0-1'	AO03076	GC21B-1371-17	03/29/2011 20:40:58
SB-NM-27 1-3'	AO03077	GC21B-1371-18	03/29/2011 21:13:48
SB-NM-27 5-7'	AO03078	GC21B-1371-19	03/29/2011 21:46:40
SB-NM-27 13-14.5'	AO03079	GC21B-1371-20	03/29/2011 22:19:32
SB-NM-28 0-1'	AO03081	GC21B-1371-22	03/29/2011 23:25:13
SB-NM-28 1-3'	AO03082	GC21B-1371-23	03/29/2011 23:58:03
SB-NM-28 5-7'	AO03083	GC21B-1371-24	03/30/2011 00:30:54
SB-NM-28 12-14'	AO03084	GC21B-1371-25	03/30/2011 01:03:45
SB-NM-29 0-1'	AO03086	GC21B-1371-26	03/30/2011 01:36:36
SB-NM-29 1-3'	AO03087	GC21B-1371-27	03/30/2011 02:09:28
SB-NM-29 5-7'	AO03088	GC21B-1371-28	03/30/2011 02:42:18
SB-NM-29 13-14'	AO03089	GC21B-1371-29	03/30/2011 03:15:10
RG-ROW-1 0-1'	AO03091	GC21B-1371-30	03/30/2011 03:48:01
RG-ROW-1 1-3'	AO03092	GC21B-1371-32	03/30/2011 04:53:42

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SAMPLE ANALYSIS DATA

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11030199-19</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-1 0-1'</u>
Sample wt(Dry)/vol:	<u>7.6147 g</u>	Lab Sample ID:	<u>AO03091</u>
Percent Moisture:	<u>28.0</u>	Date Received:	<u>03/26/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>03/28/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>03/30/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>5</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1438-30

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1371-30

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.328	U
1	11104-28-2	Aroclor 1221	0.328	U
1	11141-16-5	Aroclor 1232	0.328	U
1	53469-21-9	Aroclor 1242	0.328	U
1	12672-29-6	Aroclor 1248	0.328	U
1	11097-69-1	Aroclor 1254	6.43	AF
1	11096-82-5	Aroclor 1260	1.18	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an allared PCB pattern.
 U - Qanotas analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). POLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030199</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-1 0-1'</u>
LRF Sample ID: <u>11030199-19</u>	Lab Sample ID: <u>AO03091</u>
Instrument 1 ID: <u>GC21F</u>	Instrument 2 ID: <u>GC21B</u>
Date Analyzed: <u>03/30/2011 3:47:56 AM</u>	Date Analyzed: <u>03/30/2011 3:48:01 AM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21F-1438-30</u>	Lab File ID 2: <u>GC21B-1371-30</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.46	7.62			
		2	NA	7.84	8.00			
		3	NA	8.46	8.62			
		4	NA	8.67	8.83			
		5	NA	8.80	8.96			
	2	1	NA	8.05	8.21			
		2	NA	8.46	8.62			
		3	NA	9.07	9.23			
		4	NA	9.30	9.46			
		5	NA	9.48	9.64			
Aroclor 1221	1	1	NA	4.45	4.61			
		2	NA	5.69	5.85			
		3	NA	6.25	6.41			
		4	NA	6.44	6.60			
		5	NA	6.56	6.72			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.86	7.02			
		4	NA	7.07	7.23			
		5	NA	7.19	7.35			
Aroclor 1232	1	1	NA	6.56	6.72			
		2	NA	7.83	7.99			
		3	NA	8.45	8.61			
		4	NA	8.66	8.82			
		5	NA	8.80	8.96			
	2	1	NA	7.19	7.35			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.29	9.45			
		5	NA	9.47	9.63			
Aroclor 1242	1	1	NA	7.46	7.62			
		2	NA	7.84	8.00			
		3	NA	8.46	8.62			
		4	NA	8.67	8.83			
		5	NA	8.80	8.96			
	2	1	NA	8.05	8.21			
		2	NA	8.46	8.62			
		3	NA	9.07	9.23			
		4	NA	9.30	9.46			
		5	NA	9.48	9.64			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030199</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-1 0-1'</u>
LRF Sample ID: <u>11030199-19</u>	Lab Sample ID: <u>AO03091</u>
Instrument 1 ID: <u>GC21F</u>	Instrument 2 ID: <u>GC21B</u>
Date Analyzed: <u>03/30/2011 3:47:56 AM</u>	Date Analyzed: <u>03/30/2011 3:48:01 AM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21F-1438-30</u>	Lab File ID 2: <u>GC21B-1371-30</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	9.45	9.37	9.53			
		2	10.10	10.02	10.18			
		3	10.74	10.65	10.81			
		4	10.93	10.81	10.97			
		5	11.30	11.21	11.37			
	2	1	10.08	9.99	10.15			
		2	10.81	10.73	10.89			
		3	11.43	11.34	11.50			
		4	11.65	11.54	11.70			
		5	12.12	12.01	12.17			
Aroclor 1254	1	1	11.61	11.52	11.68			
		2	12.26	12.17	12.33			
		3	12.54	12.45	12.61			
		4	14.00	13.91	14.07			
		5	14.81	14.73	14.89	6.43		
	2	1	12.28	12.20	12.36			
		2	13.06	12.97	13.13			
		3	13.35	13.26	13.42			
		4	14.83	14.74	14.90			
		5	15.70	15.61	15.77	6.00	6.92	
Aroclor 1260	1	1	14.81	14.73	14.89			
		2	17.03	16.94	17.10			
		3	17.89	17.80	17.96			
		4	18.64	18.54	18.70			
		5	20.75	20.66	20.82	1.18		
	2	1	15.70	15.60	15.76			
		2	17.97	17.87	18.03			
		3	19.15	19.06	19.22			
		4	19.79	19.70	19.86			
		5	22.43	22.33	22.49	0.990	17.5	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11030199-20</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-1 1-3'</u>
Sample wt(Dry)/vol:	<u>8.5402 g</u>	Lab Sample ID:	<u>AO03092</u>
Percent Moisture:	<u>16.9</u>	Date Received:	<u>03/26/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>03/28/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>03/30/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1371-32

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1438-32

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
1	12674-11-2	Aroclor 1016	0.0585	U
1	11104-28-2	Aroclor 1221	0.0585	U
1	11141-16-5	Aroclor 1232	0.0585	U
1	53469-21-9	Aroclor 1242	0.0585	U
1	12672-29-6	Aroclor 1248	0.0585	U
1	11097-69-1	Aroclor 1254	1.11	AF
2	11096-82-5	Aroclor 1260	0.458	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-1 1-3'</u>
LRF Sample ID:	<u>11030199-20</u>	Lab Sample ID:	<u>AO03092</u>
Instrument 1 ID:	<u>GC21B</u>	Instrument 2 ID:	<u>GC21F</u>
Date Analyzed:	<u>03/30/2011 4:53:42 AM</u>	Date Analyzed:	<u>03/30/2011 4:53:38 AM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC21B-1371-32</u>	Lab File ID 2:	<u>GC21F-1438-32</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.05	8.21			
		2	NA	8.46	8.62			
		3	NA	9.07	9.23			
		4	NA	9.30	9.46			
		5	NA	9.48	9.64			
	2	1	NA	7.46	7.62			
		2	NA	7.84	8.00			
		3	NA	8.46	8.62			
		4	NA	8.67	8.83			
		5	NA	8.80	8.96			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.86	7.02			
		4	NA	7.07	7.23			
		5	NA	7.19	7.35			
	2	1	NA	4.45	4.61			
		2	NA	5.69	5.85			
		3	NA	6.25	6.41			
		4	NA	6.44	6.60			
		5	NA	6.56	6.72			
Aroclor 1232	1	1	NA	7.19	7.35			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.29	9.45			
		5	NA	9.47	9.63			
	2	1	NA	6.56	6.72			
		2	NA	7.83	7.99			
		3	NA	8.45	8.61			
		4	NA	8.66	8.82			
		5	NA	8.80	8.96			
Aroclor 1242	1	1	NA	8.05	8.21			
		2	NA	8.46	8.62			
		3	NA	9.07	9.23			
		4	NA	9.30	9.46			
		5	NA	9.48	9.64			
	2	1	NA	7.46	7.62			
		2	NA	7.84	8.00			
		3	NA	8.46	8.62			
		4	NA	8.67	8.83			
		5	NA	8.80	8.96			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.6.5.5

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-1 1-3'</u>
LRF Sample ID:	<u>11030199-20</u>	Lab Sample ID:	<u>AO03092</u>
Instrument 1 ID:	<u>GC21B</u>	Instrument 2 ID:	<u>GC21F</u>
Date Analyzed:	<u>03/30/2011 4:53:42 AM</u>	Date Analyzed:	<u>03/30/2011 4:53:38 AM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC21B-1371-32</u>	Lab File ID 2:	<u>GC21F-1438-32</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.07	9.99	10.15			
		2	10.81	10.73	10.89			
		3	11.42	11.34	11.50			
		4	11.64	11.54	11.70			
		5	12.12	12.01	12.17			
	2	1	9.46	9.37	9.53			
		2	10.10	10.02	10.18			
		3	10.73	10.65	10.81			
		4	10.93	10.81	10.97			
		5	11.30	11.21	11.37			
Aroclor 1254	1	1	12.28	12.20	12.36			
		2	13.05	12.97	13.13			
		3	13.35	13.26	13.42			
		4	14.82	14.74	14.90			
		5	15.69	15.61	15.77	1.11		
	2	1	11.60	11.52	11.68			
		2	12.25	12.17	12.33			
		3	12.53	12.45	12.61			
		4	14.00	13.91	14.07			
		5	14.81	14.73	14.89	1.09	1.82	
Aroclor 1260	1	1	15.69	15.60	15.76			
		2	17.96	17.87	18.03			
		3	19.15	19.06	19.22			
		4	19.78	19.70	19.86			
		5	22.42	22.33	22.49	0.337		
	2	1	14.81	14.73	14.89			
		2	17.02	16.94	17.10			
		3	17.88	17.80	17.96			
		4	18.63	18.54	18.70			
		5	20.75	20.66	20.82	0.458	30.4	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

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ANALYTICAL SEQUENCE (GC21F)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030199

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.93</u>			DCBP RT: <u>25.06</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	031116A	GC21F-1425-3	03/11/2011 16:43:53	
02	A1016 100 PPB	031116B	GC21F-1425-4	03/11/2011 17:16:46	
03	A1016 250 PPB	031116C	GC21F-1425-5	03/11/2011 17:49:38	
04	A1016 500 PPB	031116D	GC21F-1425-6	03/11/2011 18:22:29	
05	A1016 1000 PPB	031116E	GC21F-1425-7	03/11/2011 18:55:20	
06	A1221 20 PPB	031121A	GC21F-1425-8	03/11/2011 19:28:11	
07	A1221 100 PPB	031121B	GC21F-1425-9	03/11/2011 20:01:03	
08	A1221 250 PPB	031121C	GC21F-1425-10	03/11/2011 20:33:54	
09	A1221 500 PPB	031121D	GC21F-1425-11	03/11/2011 21:06:46	
10	A1221 1000 PPB	031121E	GC21F-1425-12	03/11/2011 21:39:37	
11	A1232 20 PPB	031132A	GC21F-1425-13	03/11/2011 22:12:29	
12	A1232 100 PPB	031132B	GC21F-1425-14	03/11/2011 22:45:20	
13	A1232 250 PPB	031132C	GC21F-1425-15	03/11/2011 23:18:12	
14	A1232 500 PPB	031132D	GC21F-1425-16	03/11/2011 23:51:03	
15	A1232 1000 PPB	031132E	GC21F-1425-17	03/12/2011 00:23:54	
16	A1242 20 PPB	031142A	GC21F-1425-18	03/12/2011 00:56:47	
17	A1242 100 PPB	031142B	GC21F-1425-19	03/12/2011 01:29:38	
18	A1242 250 PPB	031142C	GC21F-1425-20	03/12/2011 02:02:29	
19	A1242 500 PPB	031142D	GC21F-1425-21	03/12/2011 02:35:19	
20	A1242 1000 PPB	031142E	GC21F-1425-22	03/12/2011 03:08:12	
21	A1248 20 PPB	031148A	GC21F-1425-23	03/12/2011 03:41:03	
22	A1248 100 PPB	031148B	GC21F-1425-24	03/12/2011 04:13:55	
23	A1248 250 PPB	031148C	GC21F-1425-25	03/12/2011 04:46:46	
24	A1248 500 PPB	031148D	GC21F-1425-26	03/12/2011 05:19:38	
25	A1248 1000 PPB	031148E	GC21F-1425-27	03/12/2011 05:52:30	
26	A1254 100 PPB	031154B	GC21F-1425-28	03/12/2011 06:25:22	5.93
27	A1254 20 PPB	031154A	GC21F-1425-29	03/12/2011 06:58:12	5.93
28	A1254 250 PPB	031154C	GC21F-1425-30	03/12/2011 07:31:03	5.93
29	A1254 500 PPB	031154D	GC21F-1425-31	03/12/2011 08:03:54	5.93
30	A1254 1000 PPB	031154E	GC21F-1425-32	03/12/2011 08:36:46	5.93
31	A1260 20 PPB	031160A	GC21F-1425-33	03/12/2011 09:09:37	
32	A1260 100 PPB	031160B	GC21F-1425-34	03/12/2011 09:42:28	
33	A1260 250 PPB	031160C	GC21F-1425-35	03/12/2011 10:15:19	
34	A1260 500 PPB	031160D	GC21F-1425-36	03/12/2011 10:48:11	
35	A1260 1000 PPB	031160E	GC21F-1425-37	03/12/2011 11:21:02	
36	A1262 20 PPB	031162A	GC21F-1425-38	03/12/2011 11:53:53	
37	A1262 100 PPB	031162B	GC21F-1425-39	03/12/2011 12:26:44	
38	A1262 250 PPB	031162C	GC21F-1425-40	03/12/2011 12:59:35	

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lims Version : 5.0.5.5

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**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030199

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>5.93</u>	DCBP RT: <u>25.06</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	031162D	GC21F-1425-41	03/12/2011 13:32:26	
40	A1262 1000 PPB	031162E	GC21F-1425-42	03/12/2011 14:05:18	
41	A1268 20 PPB	031168A	GC21F-1425-43	03/12/2011 14:38:09	
42	A1268 100 PPB	031168B	GC21F-1425-44	03/12/2011 15:11:00	
43	A1268 250 PPB	031168C	GC21F-1425-45	03/12/2011 15:43:52	
44	A1268 500 PPB	031168D	GC21F-1425-46	03/12/2011 16:16:44	
45	A1268 1000 PPB	031168E	GC21F-1425-47	03/12/2011 16:49:35	
46	IUPAC 15 20 PPB	0314FSA	GC21F-1425-60	03/14/2011 10:51:18	
47	IUPAC 15 50 PPB	0314FSB	GC21F-1425-61	03/14/2011 11:24:10	
48	IUPAC 15 80 PPB	0314FSC	GC21F-1425-62	03/14/2011 11:57:01	
49	IUPAC 15 100 PPB	0314FSD	GC21F-1425-63	03/14/2011 12:29:52	
50	IUPAC 15 200 PPB	0314FSE	GC21F-1425-64	03/14/2011 13:02:43	
51	A1016 500 PPB	CS160314A	GC21F-1425-66	5.93	25.04
52	A1221 500 PPB	CS210314A	GC21F-1425-67	5.93	25.03
53	A1232 500 PPB	CS320314A	GC21F-1425-68	5.93	25.03
54	A1242 500 PPB	CS420314A	GC21F-1425-69	5.93	25.04
55	A1248 500 PPB	CS480314A	GC21F-1425-70	5.93	25.03
56	A1254 500 PPB	CS540314A	GC21F-1425-71	5.93	25.03
57	A1260 500 PPB	CS600314A	GC21F-1425-72	5.93	25.03
58	A1262 500 PPB	CS620314A	GC21F-1425-73	5.93	25.04
59	A1268 500 PPB	CS680314A	GC21F-1425-74	5.93	25.03
60	SURR IUPAC 15 70 PPB	110314FS01	GC21F-1425-75	5.93	25.05
61	A1242 500 PPB	CS420329A	GC21F-1438-11	5.93	25.04
62	PBLK-78(METHOD BLANK)	AO03073B	GC21F-1438-12	5.93	25.04
63	LCS-78(LAB CONTROL SPIKE)	AO03073L	GC21F-1438-13	5.93	25.04
64	SB-NM-26 1-3'	AO03073	GC21F-1438-14	5.93(D)	25.04(D)
65	SB-NM-26 5-7'	AO03074	GC21F-1438-15	5.93	25.04
66	SB-NM-26 11-12'	AO03075	GC21F-1438-16	5.93	25.04
67	SB-NM-27 0-1'	AO03076	GC21F-1438-17	5.93(D)	25.04(D)
66	SB-NM-27 1-3'	AO03077	GC21F-1438-18	5.93	25.04
69	SB-NM-27 5-7'	AO03078	GC21F-1438-19	5.93(D)	25.04(D)
70	SB-NM-27 13-14.5'	AO03079	GC21F-1438-20	5.93	25.04
71	A1248 500 PPB	CS480329A	GC21F-1438-21	5.93	25.04
72	SB-NM-28 0-1'	AO03081	GC21F-1438-22	5.93	25.04
73	SB-NM-28 1-3'	AO03082	GC21F-1438-23	5.93	25.04
74	SB-NM-28 5-7'	AO03083	GC21F-1438-24	5.93	25.04
75	SB-NM-28 12-14'	AO03084	GC21F-1438-25	5.93	25.04
76	SB-NM-29 0-1'	AO03086	GC21F-1438-26	5.93(D)	25.04(D)

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lims Vers.on : 5.0.5.5

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030199

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.93</u>			DCBP RT: <u>25.06</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
77 SB-NM-29 1-3'	AO03087	GC21F-1438-27	03/30/2011 02:09:23	5.93(D)	25.04(D)
78 SB-NM-29 5-7'	AO03088	GC21F-1438-28	03/30/2011 02:42:14	5.93(D)	25.05(D)
79 SB-NM-29 13-14'	AO03089	GC21F-1438-29	03/30/2011 03:15:05	5.93	25.04
80 RG-ROW-1 0-1'	AO03091	GC21F-1438-30	03/30/2011 03:47:56	5.93	25.04
81 A1254 500 PPB	CS540329A	GC21F-1438-31	03/30/2011 04:20:47	5.93	25.04
82 RG-ROW-1 1-3'	AO03092	GC21F-1438-32	03/30/2011 04:53:38	5.93	25.04
83 A1260 500 PPB	CS600329A	GC21F-1438-33	03/30/2011 05:26:29	5.93	25.05

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

INITIAL CALIBRATION DATA (GC21F)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030199
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC21F-1425-3	031116A	20.0	80.892		
	GC21F-1425-4	031118B	100	91.315		
	GC21F-1425-5	031116C	250	84.840		
	GC21F-1425-6	031116D	500	84.133		
	GC21F-1425-7	031116E	1000	79.800	84.196	5.4
Aroclor 1221	GC21F-1425-8	031121A	20.0	24.208		
	GC21F-1425-9	031121B	100	25.122		
	GC21F-1425-10	031121C	250	24.662		
	GC21F-1425-11	031121D	500	22.667		
	GC21F-1425-12	031121E	1000	22.043	23.720	5.7
Aroclor 1232	GC21F-1425-13	031132A	20.0	42.018		
	GC21F-1425-14	031132B	100	40.939		
	GC21F-1425-15	031132C	250	41.091		
	GC21F-1425-16	031132D	500	39.718		
	GC21F-1425-17	031132E	1000	39.035	40.560	2.9
Aroclor 1242	GC21F-1425-18	031142A	20.0	75.584		
	GC21F-1425-19	031142B	100	72.310		
	GC21F-1425-20	031142C	250	74.392		
	GC21F-1425-21	031142D	500	74.520		
	GC21F-1425-22	031142E	1000	70.168	73.395	2.9
Aroclor 1248	GC21F-1425-23	031148A	20.0	67.932		
	GC21F-1425-24	031148B	100	75.340		
	GC21F-1425-25	031148C	250	75.049		
	GC21F-1425-26	031148D	500	70.150		
	GC21F-1425-27	031148E	1000	71.176	71.929	4.5
Aroclor 1254	GC21F-1425-29	031154A	20.0	111.528		
	GC21F-1425-28	031154B	100	117.476		
	GC21F-1425-30	031154C	250	113.797		
	GC21F-1425-31	031154D	500	110.455		
	GC21F-1425-32	031154E	1000	105.946	111.841	3.8
Aroclor 1260	GC21F-1425-33	031160A	20.0	132.290		
	GC21F-1425-34	031160B	100	133.443		
	GC21F-1425-35	031180C	250	130.697		
	GC21F-1425-36	031160D	500	130.670		
	GC21F-1425-37	031160E	1000	120.984	129.657	3.8
Aroclor 1262	GC21F-1425-38	031162A	20.0	138.670		
	GC21F-1425-39	031162B	100	135.528		
	GC21F-1425-40	031162C	250	141.432		
	GC21F-1425-41	031162D	500	140.464		
	GC21F-1425-42	031162E	1000	129.566	137.132	3.5

FORM VI-CLP-PCB(NEA-PACE)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030199
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC21F-1425-43	031168A	20.0	271.193		
	GC21F-1425-44	031168B	100	277.620		
	GC21F-1425-45	031168C	250	268.054		
	GC21F-1425-46	031168D	500	247.108		
	GC21F-1425-47	031168E	1000	241.469	261.089	6.1
TCMX	GC21F-1425-29	031154A	2.00	488.907		
	GC21F-1425-28	031154B	5.00	471.002		
	GC21F-1425-30	031154C	8.00	456.151		
	GC21F-1425-31	031154D	10.0	456.889		
	GC21F-1425-32	031154E	20.0	435.936	461.777	4.3
4,4'-Dibromobiphenyl	GC21F-1425-60	0314FSA	20.0	259.225		
	GC21F-1425-61	0314FSB	50.0	244.499		
	GC21F-1425-62	0314FSC	80.0	237.202		
	GC21F-1425-63	0314FSD	100	239.501		
	GC21F-1425-64	0314FSE	200	226.267	241.339	5.0
DCBP	GC21F-1425-29	031154A	20.0	517.601		
	GC21F-1425-28	031154B	50.0	493.896		
	GC21F-1425-30	031154C	80.0	468.074		
	GC21F-1425-31	031154D	100	469.605		
	GC21F-1425-32	031154E	200	445.781	478.991	5.7

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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INITIAL/CONTINUING CALIBRATION DATA (GC21F)

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030199

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC21F-1425-66	CS160314A	ICV	499	500	-0.153	03/14/2011 14:08:26
Aroclor 1221	GC21F-1425-67	CS210314A	ICV	509	500	1.86	03/14/2011 14:41:16
Aroclor 1232	GC21F-1425-68	CS320314A	ICV	496	500	-0.667	03/14/2011 15:14:09
Aroclor 1242	GC21F-1425-69	CS420314A	ICV	450	500	-9.95	03/14/2011 15:47:00
Aroclor 1248	GC21F-1425-70	CS480314A	ICV	462	500	-3.51	03/14/2011 16:19:51
Aroclor 1254	GC21F-1425-71	CS540314A	ICV	480	500	-3.97	03/14/2011 16:52:42
Aroclor 1260	GC21F-1425-72	CS600314A	ICV	479	500	-4.30	03/14/2011 17:25:33
Aroclor 1262	GC21F-1425-73	CS620314A	ICV	495	500	-1.02	03/14/2011 17:58:24
Aroclor 1268	GC21F-1425-74	CS680314A	ICV	482	500	-7.61	03/14/2011 18:31:15
Aroclor 1242	GC21F-1438-11	CS420329A	CCV	450	500	-9.98	03/29/2011 17:23:47
Aroclor 1248	GC21F-1438-21	CS480329A	CCV	520	500	3.92	03/29/2011 22:52:18
Aroclor 1254	GC21F-1438-31	CS540329A	CCV	511	500	2.26	03/30/2011 04:20:47
Aroclor 1280	GC21F-1438-33	CS600329A	CCV	479	500	-4.10	03/30/2011 05:26:29

% Difference must be less than or equal to +/- 15 percent
 ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030199

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC21F-1425-66	CS160314A	ICV	1	7.54	7.48	7.62
		CS160314A	ICV	2	7.92	7.84	8.00
		CS160314A	ICV	3	8.54	8.46	8.62
		CS160314A	ICV	4	8.75	8.67	8.83
		CS160314A	ICV	5	8.88	8.80	8.96
Aroclor 1221	GC21F-1425-67	CS210314A	ICV	1	4.53	4.45	4.61
		CS210314A	ICV	2	5.77	5.69	5.85
		CS210314A	ICV	3	6.33	6.25	6.41
		CS210314A	ICV	4	6.52	6.44	6.60
		CS210314A	ICV	5	6.64	6.56	6.72
Aroclor 1232	GC21F-1425-68	CS320314A	ICV	1	6.64	6.56	6.72
		CS320314A	ICV	2	7.91	7.83	7.99
		CS320314A	ICV	3	8.53	8.45	8.61
		CS320314A	ICV	4	8.74	8.66	8.82
		CS320314A	ICV	5	8.88	8.80	8.96
Aroclor 1242	GC21F-1425-69	CS420314A	ICV	1	7.54	7.46	7.62
		CS420314A	ICV	2	7.92	7.84	8.00
		CS420314A	ICV	3	8.54	8.46	8.62
		CS420314A	ICV	4	8.75	8.67	8.63
		CS420314A	ICV	5	8.88	8.80	8.96
Aroclor 1248	GC21F-1425-70	CS480314A	ICV	1	9.45	9.37	9.53
		CS480314A	ICV	2	10.10	10.02	10.18
		CS480314A	ICV	3	10.73	10.65	10.61
		CS480314A	ICV	4	10.89	10.81	10.97
		CS480314A	ICV	5	11.29	11.21	11.37
Aroclor 1254	GC21F-1425-71	CS540314A	ICV	1	11.60	11.52	11.68
		CS540314A	ICV	2	12.25	12.17	12.33
		CS540314A	ICV	3	12.53	12.45	12.61
		CS540314A	ICV	4	13.99	13.91	14.07
		CS540314A	ICV	5	14.81	14.73	14.89
Aroclor 1260	GC21F-1425-72	CS600314A	ICV	1	14.81	14.73	14.89
		CS600314A	ICV	2	17.02	16.94	17.10
		CS600314A	ICV	3	17.88	17.80	17.96
		CS600314A	ICV	4	18.62	18.54	18.70
		CS600314A	ICV	5	20.74	20.66	20.82
Aroclor 1262	GC21F-1425-73	CS620314A	ICV	1	14.81	14.73	14.89
		CS620314A	ICV	2	17.02	16.94	17.10
		CS620314A	ICV	3	17.88	17.80	17.96

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030199

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620314A	ICV	4	18.63	18.55	18.71
		CS620314A	ICV	5	20.75	20.67	20.83
Aroclor 1268	GC21F-1425-74	CS680314A	ICV	1	18.63	18.55	18.71
		CS680314A	ICV	2	20.74	20.86	20.82
		CS680314A	ICV	3	18.41	16.33	18.49
		CS680314A	ICV	4	19.86	19.80	19.96
		CS880314A	ICV	5	20.23	20.15	20.31

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030199

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1242	GC21F-1438-11	CS420329A	CCV	1	7.54	7.46	7.62
		CS420329A	CCV	2	7.92	7.84	8.00
		CS420329A	CCV	3	8.54	8.46	8.62
		CS420329A	CCV	4	8.75	8.67	8.83
		CS420329A	CCV	5	8.89	8.80	8.96
Aroclor 1248	GC21F-1438-21	CS480329A	CCV	1	9.45	9.37	9.53
		CS480329A	CCV	2	10.10	10.02	10.18
		CS480329A	CCV	3	10.73	10.65	10.81
		CS480329A	CCV	4	10.89	10.81	10.97
		CS480329A	CCV	5	11.29	11.21	11.37
Aroclor 1254	GC21F-1438-31	CS540329A	CCV	1	11.61	11.52	11.66
		CS540329A	CCV	2	12.26	12.17	12.33
		CS540329A	CCV	3	12.53	12.45	12.61
		CS540329A	CCV	4	14.00	13.91	14.07
		CS540329A	CCV	5	14.81	14.73	14.89
Aroclor 1260	GC21F-1438-33	CS600329A	CCV	1	14.82	14.73	14.89
		CS600329A	CCV	2	17.03	16.94	17.10
		CS600329A	CCV	3	17.89	17.80	17.96
		CS600329A	CCV	4	18.63	18.54	18.70
		CS600329A	CCV	5	20.75	20.66	20.82

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

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ANALYTICAL SEQUENCE (GC21B)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030199

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>6.51</u>			DCBP RT: <u>27.37</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
01	A1016 20 PPB	031116A	GC21B-1358-3	03/11/2011 16:43:58	
02	A1016 100 PPB	031116B	GC21B-1358-4	03/11/2011 17:16:50	
03	A1016 250 PPB	031116C	GC21B-1358-5	03/11/2011 17:49:43	
04	A1016 500 PPB	031116D	GC21B-1358-6	03/11/2011 18:22:33	
05	A1016 1000 PPB	031116E	GC21B-1358-7	03/11/2011 18:55:24	
06	A1221 20 PPB	031121A	GC21B-1358-8	03/11/2011 19:28:15	
07	A1221 100 PPB	031121B	GC21B-1358-9	03/11/2011 20:01:07	
08	A1221 250 PPB	031121C	GC21B-1358-10	03/11/2011 20:33:59	
09	A1221 500 PPB	031121D	GC21B-1358-11	03/11/2011 21:06:50	
10	A1221 1000 PPB	031121E	GC21B-1358-12	03/11/2011 21:39:42	
11	A1232 20 PPB	031132A	GC21B-1358-13	03/11/2011 22:12:34	
12	A1232 100 PPB	031132B	GC21B-1358-14	03/11/2011 22:45:25	
13	A1232 250 PPB	031132C	GC21B-1358-15	03/11/2011 23:18:17	
14	A1232 500 PPB	031132D	GC21B-1358-16	03/11/2011 23:51:08	
15	A1232 1000 PPB	031132E	GC21B-1358-17	03/12/2011 00:23:59	
16	A1242 20 PPB	031142A	GC21B-1358-18	03/12/2011 00:56:51	
17	A1242 100 PPB	031142B	GC21B-1358-19	03/12/2011 01:29:43	
18	A1242 250 PPB	031142C	GC21B-1358-20	03/12/2011 02:02:33	
19	A1242 500 PPB	031142D	GC21B-1358-21	03/12/2011 02:35:24	
20	A1242 1000 PPB	031142E	GC21B-1358-22	03/12/2011 03:08:16	
21	A1248 20 PPB	031148A	GC21B-1358-23	03/12/2011 03:41:07	
22	A1248 100 PPB	031148B	GC21B-1358-24	03/12/2011 04:13:59	
23	A1248 250 PPB	031148C	GC21B-1358-25	03/12/2011 04:46:50	
24	A1248 500 PPB	031148D	GC21B-1358-26	03/12/2011 05:19:42	
25	A1248 1000 PPB	031148E	GC21B-1358-27	03/12/2011 05:52:34	
26	A1254 100 PPB	031154B	GC21B-1358-28	03/12/2011 06:25:25	6.51
27	A1254 20 PPB	031154A	GC21B-1358-29	03/12/2011 06:58:15	6.51
28	A1254 250 PPB	031154C	GC21B-1358-30	03/12/2011 07:31:06	6.51
29	A1254 500 PPB	031154D	GC21B-1358-31	03/12/2011 08:03:58	6.51
30	A1254 1000 PPB	031154E	GC21B-1358-32	03/12/2011 08:36:50	6.51
31	A1260 20 PPB	031160A	GC21B-1358-33	03/12/2011 09:09:41	
32	A1260 100 PPB	031160B	GC21B-1358-34	03/12/2011 09:42:32	
33	A1260 250 PPB	031160C	GC21B-1358-35	03/12/2011 10:15:23	
34	A1260 500 PPB	031160D	GC21B-1358-36	03/12/2011 10:48:15	
35	A1260 1000 PPB	031160E	GC21B-1358-37	03/12/2011 11:21:05	
36	A1262 20 PPB	031162A	GC21B-1358-38	03/12/2011 11:53:56	
37	A1262 100 PPB	031162B	GC21B-1358-39	03/12/2011 12:26:47	
38	A1262 250 PPB	031162C	GC21B-1358-40	03/12/2011 12:59:38	

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lms Version 5.0.5.5

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**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030199

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.51 DCBP RT: 27.37

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	031162D	GC21B-1358-41	03/12/2011 13:32:30		
40	A1262 1000 PPB	031162E	GC21B-1358-42	03/12/2011 14:05:21		
41	A1268 20 PPB	031168A	GC21B-1358-43	03/12/2011 14:38:13		
42	A1268 100 PPB	031168B	GC21B-1358-44	03/12/2011 15:11:04		
43	A1268 250 PPB	031168C	GC21B-1358-45	03/12/2011 15:43:56		
44	A1268 500 PPB	031168D	GC21B-1358-46	03/12/2011 16:16:48		
45	A1268 1000 PPB	031168E	GC21B-1358-47	03/12/2011 16:49:38		
46	IUPAC 15 20 PPB	0314FSA	GC21B-1358-60	03/14/2011 10:51:22		
47	IUPAC 15 50 PPB	0314FSB	GC21B-1358-61	03/14/2011 11:24:14		
48	IUPAC 15 80 PPB	0314FSC	GC21B-1358-62	03/14/2011 11:57:05		
49	IUPAC 15 100 PPB	0314FSD	GC21B-1358-63	03/14/2011 12:29:56		
50	IUPAC 15 200 PPB	0314FSE	GC21B-1358-64	03/14/2011 13:02:48		
51	A1016 500 PPB	CS160314A	GC21B-1358-66	03/14/2011 14:08:31	6.51	27.35
52	A1221 500 PPB	CS210314A	GC21B-1358-67	03/14/2011 14:41:22	6.51	27.34
53	A1232 500 PPB	CS320314A	GC21B-1358-68	03/14/2011 15:14:13	6.50	27.35
54	A1242 500 PPB	CS420314A	GC21B-1358-69	03/14/2011 15:47:04	6.51	27.35
55	A1248 500 PPB	CS480314A	GC21B-1358-70	03/14/2011 16:19:55	6.50	27.35
56	A1254 500 PPB	CS540314A	GC21B-1358-71	03/14/2011 16:52:46	6.51	27.35
57	A1260 500 PPB	CS600314A	GC21B-1358-72	03/14/2011 17:25:37	6.51	27.34
58	A1262 500 PPB	CS620314A	GC21B-1358-73	03/14/2011 17:58:28	6.51	27.35
59	A1268 500 PPB	CS680314A	GC21B-1358-74	03/14/2011 18:31:20	6.51	27.35
60	SURR IUPAC 15 70 PPB	110314FS01	GC21B-1358-75	03/14/2011 19:04:10	6.52	27.37
61	A1242 500 PPB	CS420329A	GC21B-1371-11	03/29/2011 17:23:51	6.51	27.37
62	PBLK-78(METHOD BLANK)	AO03073B	GC21B-1371-12	03/29/2011 17:56:42	6.51	27.37
63	LCS-78(LAB CONTROL SPIKE)	AO03073L	GC21B-1371-13	03/29/2011 18:29:32	6.51	27.36
64	SB-NM-26 1-3'	AO03073	GC21B-1371-14	03/29/2011 19:02:23	6.51(D)	27.36(D)
65	SB-NM-26 5-7'	AO03074	GC21B-1371-15	03/29/2011 19:35:13	6.51	27.36
66	SB-NM-26 11-12'	AO03075	GC21B-1371-16	03/29/2011 20:08:06	6.51	27.37
67	SB-NM-27 0-1'	AO03076	GC21B-1371-17	03/29/2011 20:40:58	6.51(D)	27.36(D)
68	SB-NM-27 1-3'	AO03077	GC21B-1371-18	03/29/2011 21:13:48	6.51	27.36
69	SB-NM-27 5-7'	AO03078	GC21B-1371-19	03/29/2011 21:46:40	6.51(D)	27.36(D)
70	SB-NM-27 13-14.5'	AO03079	GC21B-1371-20	03/29/2011 22:19:32	6.51	27.36
71	A1248 500 PPB	CS480329A	GC21B-1371-21	03/29/2011 22:52:23	6.51	27.36
72	SB-NM-28 0-1'	AO03081	GC21B-1371-22	03/29/2011 23:25:13	6.51	27.36
73	SB-NM-28 1-3'	AO03082	GC21B-1371-23	03/29/2011 23:58:03	6.50	27.36
74	SB-NM-28 5-7'	AO03083	GC21B-1371-24	03/30/2011 00:30:54	6.51	27.36
75	SB-NM-28 12-14'	AO03084	GC21B-1371-25	03/30/2011 01:03:45	6.51	27.36
76	SB-NM-29 0-1'	AO03086	GC21B-1371-26	03/30/2011 01:36:36	6.50(D)	27.36(D)

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lims Version : 5.0.5.5

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030199

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.51</u>	DCBP RT: <u>27.37</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
77 SB-NM-29 1-3'	AO03087	GC21B-1371-27	03/30/2011 02:09:28	6.51(D)	27.36(D)
78 SB-NM-29 5-7'	AO03088	GC21B-1371-28	03/30/2011 02:42:18	6.51(D)	27.36(D)
79 SB-NM-29 13-14'	AO03089	GC21B-1371-29	03/30/2011 03:15:10	6.50	27.36
80 RG-ROW-1 0-1'	AO03091	GC21B-1371-30	03/30/2011 03:48:01	6.51	27.36
81 A1254 500 PPB	CS540329A	GC21B-1371-31	03/30/2011 04:20:51	6.51	27.36
82 RG-ROW-1 1-3'	AO03092	GC21B-1371-32	03/30/2011 04:53:42	6.50	27.36
83 A1260 500 PPB	CS600329A	GC21B-1371-33	03/30/2011 05:26:33	6.51	27.36

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

INITIAL CALIBRATION DATA (GC21B)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030199
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC21B-1358-3	031116A	20.0	94.632		
	GC21B-1358-4	031116B	100	98.739		
	GC21B-1358-5	031116C	250	91.424		
	GC21B-1358-6	031116D	500	85.900		
	GC21B-1358-7	031116E	1000	82.370	90.613	7.3
Aroclor 1221	GC21B-1358-8	031121A	20.0	25.923		
	GC21B-1358-9	031121B	100	24.896		
	GC21B-1358-10	031121C	250	23.871		
	GC21B-1358-11	031121D	500	23.996		
Aroclor 1232	GC21B-1358-12	031121E	1000	22.895	24.276	4.8
	GC21B-1358-13	031132A	20.0	37.199		
	GC21B-1358-14	031132B	100	45.723		
	GC21B-1358-15	031132C	250	42.085		
Aroclor 1242	GC21B-1358-16	031132D	500	41.496		
	GC21B-1358-17	031132E	1000	42.423	41.785	7.3
	GC21B-1358-18	031142A	20.0	79.466		
	GC21B-1358-19	031142B	100	76.688		
	GC21B-1358-20	031142C	250	77.633		
Aroclor 1248	GC21B-1358-21	031142D	500	75.885		
	GC21B-1358-22	031142E	1000	71.100	76.154	4.1
	GC21B-1358-23	031148A	20.0	81.489		
	GC21B-1358-24	031148B	100	81.431		
	GC21B-1358-25	031148C	250	79.335		
Aroclor 1254	GC21B-1358-26	031148D	500	74.865		
	GC21B-1358-27	031148E	1000	75.745	78.573	4.0
	GC21B-1358-29	031154A	20.0	138.240		
	GC21B-1358-28	031154B	100	134.540		
	GC21B-1358-30	031154C	250	130.888		
Aroclor 1260	GC21B-1358-31	031154D	500	123.817		
	GC21B-1358-32	031154E	1000	121.696	129.836	5.4
	GC21B-1358-33	031160A	20.0	163.077		
	GC21B-1358-34	031160B	100	185.477		
	GC21B-1358-35	031160C	250	184.114		
Aroclor 1262	GC21B-1358-36	031160D	500	178.429		
	GC21B-1358-37	031160E	1000	173.465	176.912	5.1
	GC21B-1358-38	031162A	20.0	183.569		
	GC21B-1358-39	031162B	100	186.133		
	GC21B-1358-40	031162C	250	199.774		
Aroclor 1262	GC21B-1358-41	031162D	500	187.716		
	GC21B-1358-42	031162E	1000	185.774	188.597	3.4

FORM VI-CLP-PCB(NEA-PACE)

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030199
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC21B-1358-43	031168A	20.0	348.303		
	GC21B-1358-44	031168B	100	356.499		
	GC21B-1358-45	031168C	250	340.982		
	GC21B-1358-46	031168D	500	326.090		
	GC21B-1358-47	031166E	1000	319.904	338.356	4.5
TCMX	GC21B-1358-29	031154A	2.00	533.555		
	GC21B-1358-28	031154B	5.00	502.196		
	GC21B-1358-30	031154C	8.00	497.695		
	GC21B-1358-31	031154D	10.0	483.808		
	GC21B-1358-32	031154E	20.0	468.488	497.148	4.9
4,4'-Dibromobiphenyl	GC21B-1358-60	0314FSA	20.0	297.154		
	GC21B-1358-61	0314FSB	50.0	284.899		
	GC21B-1358-62	0314FSC	80.0	275.012		
	GC21B-1358-63	0314FSD	100	263.534		
	GC21B-1358-64	0314FSE	200	254.528	275.025	6.1
DCBP	GC21B-1358-29	031154A	20.0	575.342		
	GC21B-1358-28	031154B	50.0	571.216		
	GC21B-1358-30	031154C	80.0	532.309		
	GC21B-1358-31	031154D	100	529.661		
	GC21B-1358-32	031154E	200	519.739	545.654	4.7

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

INITIAL/CONTINUING CALIBRATION DATA (GC21B)

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030199

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC21B-1358-66	CS160314A	ICV	484	500	-3.19	03/14/2011 14:08:31
Aroclor 1221	GC21B-1358-67	CS210314A	ICV	492	500	-1.64	03/14/2011 14:41:22
Aroclor 1232	GC21B-1358-68	CS320314A	ICV	464	500	-7.24	03/14/2011 15:14:13
Aroclor 1242	GC21B-1358-69	CS420314A	ICV	455	500	-8.93	03/14/2011 15:47:04
Aroclor 1248	GC21B-1358-70	CS480314A	ICV	474	500	-5.14	03/14/2011 16:19:55
Aroclor 1254	GC21B-1358-71	CS540314A	ICV	489	500	-2.17	03/14/2011 16:52:46
Aroclor 1260	GC21B-1358-72	CS600314A	ICV	458	500	-8.44	03/14/2011 17:25:37
Aroclor 1262	GC21B-1358-73	CS620314A	ICV	502	500	0.383	03/14/2011 17:58:28
Aroclor 1268	GC21B-1358-74	CS660314A	ICV	473	500	-5.31	03/14/2011 18:31:20
Aroclor 1242	GC21B-1371-11	CS420329A	CCV	439	500	-12.1	03/29/2011 17:23:51
Aroclor 1248	GC21B-1371-21	CS480329A	CCV	455	500	-9.00	03/29/2011 22:52:23
Aroclor 1254	GC21B-1371-31	CS540329A	CCV	474	500	-5.24	03/30/2011 04:20:51
Aroclor 1260	GC21B-1371-33	CS600329A	CCV	451	500	-9.80	03/30/2011 05:26:33

% Difference must be less than or equal to +/- 15 percent
 ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11030199

ELAP ID No: 11078

Instrument ID: GC21B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1018	GC21B-1358-66	CS160314A	ICV	1	8.13	8.05	8.21
		CS160314A	ICV	2	8.54	8.46	8.82
		CS160314A	ICV	3	9.15	9.07	9.23
		CS160314A	ICV	4	9.38	9.30	9.46
		CS160314A	ICV	5	9.56	9.48	9.64
Aroclor 1221	GC21B-1358-67	CS210314A	ICV	1	5.32	5.24	5.40
		CS210314A	ICV	2	6.47	6.39	6.55
		CS210314A	ICV	3	6.94	6.86	7.02
		CS210314A	ICV	4	7.15	7.07	7.23
		CS210314A	ICV	5	7.27	7.19	7.35
Aroclor 1232	GC21B-1358-68	CS320314A	ICV	1	7.27	7.19	7.35
		CS320314A	ICV	2	8.53	8.45	8.61
		CS320314A	ICV	3	9.14	9.06	9.22
		CS320314A	ICV	4	9.37	9.29	9.45
		CS320314A	ICV	5	9.55	9.47	9.63
Aroclor 1242	GC21B-1358-69	CS420314A	ICV	1	8.13	8.05	8.21
		CS420314A	ICV	2	8.54	8.46	8.62
		CS420314A	ICV	3	9.15	9.07	9.23
		CS420314A	ICV	4	9.38	9.30	9.46
		CS420314A	ICV	5	9.56	9.48	9.64
Aroclor 1246	GC21B-1358-70	CS480314A	ICV	1	10.07	9.99	10.15
		CS480314A	ICV	2	10.61	10.73	10.89
		CS480314A	ICV	3	11.42	11.34	11.50
		CS480314A	ICV	4	11.62	11.54	11.70
		CS480314A	ICV	5	12.09	12.01	12.17
Aroclor 1254	GC21B-1356-71	CS540314A	ICV	1	12.26	12.20	12.36
		CS540314A	ICV	2	13.05	12.97	13.13
		CS540314A	ICV	3	13.34	13.26	13.42
		CS540314A	ICV	4	14.82	14.74	14.90
		CS540314A	ICV	5	15.69	15.61	15.77
Aroclor 1260	GC21B-1358-72	CS600314A	ICV	1	15.68	15.60	15.76
		CS600314A	ICV	2	17.95	17.87	18.03
		CS600314A	ICV	3	19.14	19.06	19.22
		CS600314A	ICV	4	19.78	19.70	19.86
		CS600314A	ICV	5	22.41	22.33	22.49
Aroclor 1262	GC21B-1358-73	CS620314A	ICV	1	15.69	15.61	15.77
		CS620314A	ICV	2	17.96	17.68	18.04
		CS620314A	ICV	3	19.14	19.06	19.22

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11030199

ELAP ID No: 11078

Instrument ID: GC21B

GC Column: Phenomenex, Zebro ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620314A	ICV	4	19.78	19.70	19.86
		CS620314A	ICV	5	22.41	22.33	22.49
Aroclor 1268	GC21B-1358-74	CS680314A	ICV	1	19.77	19.69	19.85
		CS680314A	ICV	2	22.41	22.33	22.49
		CS680314A	ICV	3	19.53	19.45	19.81
		CS680314A	ICV	4	21.20	21.12	21.28
		CS680314A	ICV	5	21.64	21.56	21.72

* ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030199

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1242	GC21B-1371-11	CS420329A	CCV	1	8.13	8.05	8.21
		CS420329A	CCV	2	8.54	8.46	8.62
		CS420329A	CCV	3	9.15	9.07	9.23
		CS420329A	CCV	4	9.38	9.30	9.46
		CS420329A	CCV	5	9.56	9.48	9.64
Aroclor 1248	GC21B-1371-21	CS480329A	CCV	1	10.07	9.99	10.15
		CS480329A	CCV	2	10.81	10.73	10.89
		CS480329A	CCV	3	11.42	11.34	11.50
		CS480329A	CCV	4	11.62	11.54	11.70
		CS480329A	CCV	5	12.09	12.01	12.17
Aroclor 1254	GC21B-1371-31	CS540329A	CCV	1	12.28	12.20	12.36
		CS540329A	CCV	2	13.05	12.97	13.13
		CS540329A	CCV	3	13.35	13.26	13.42
		CS540329A	CCV	4	14.82	14.74	14.90
		CS540329A	CCV	5	15.69	15.61	15.77
Aroclor 1260	GC21B-1371-33	CS600329A	CCV	1	15.69	15.60	15.76
		CS600329A	CCV	2	17.97	17.87	18.03
		CS600329A	CCV	3	19.15	19.06	19.22
		CS600329A	CCV	4	19.79	19.70	19.86
		CS600329A	CCV	5	22.42	22.33	22.49

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

QC SAMPLE RAW DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>PBLK-78</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>METHOD BLANK</u>
Sample wt(Dry)/vol:	<u>10.257 g</u>	Lab Sample ID:	<u>AQ03073B</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC21F-1438-12</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>03/28/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U
37324-23-5	Aroclor 1262	0.0500	U
11100-14-4	Aroclor 1268	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>PBLK-78</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>METHOD BLANK</u>
Sample wt(Dry)/vol:	<u>10.257 g</u>	Lab Sample ID:	<u>AO03073B</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC21B-1371-12</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>03/28/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U
37324-23-5	Aroclor 1262	0.0500	U
11100-14-4	Aroclor 1268	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>LCS-78</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>10.077 g</u>	Lab Sample ID:	<u>AO03073L</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC21F-1438-13</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>03/28/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION	Q
		UG/G	
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.15	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U
37324-23-5	Aroclor 1262	0.0500	U
11100-14-4	Aroclor 1268	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>LCS-78</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>10.077 g</u>	Lab Sample ID:	<u>AO03073L</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC21B-1371-13</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>03/28/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.11	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U
37324-23-5	Aroclor 1262	0.0500	U
11100-14-4	Aroclor 1268	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**10-B
PCB Identification Summary**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>LCS-78(LAB CONTROL SPIKE)</u>
LRF Sample ID:	<u>LCS-78</u>	Lab Sample ID:	<u>AO03073L</u>
Instrument 1 ID:	<u>GC21F</u>	Instrument 2 ID:	<u>GC21B</u>
Date Analyzed:	<u>03/29/2011 6:29:29 PM</u>	Date Analyzed:	<u>03/29/2011 6:29:32 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC21F-1438-13</u>	Lab File ID 2:	<u>GC21B-1371-13</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.54	7.46	7.62			
		2	7.92	7.84	8.00			
		3	8.54	8.46	8.62			
		4	8.75	8.67	8.83			
		5	8.89	8.80	8.96			
	2	1	8.13	8.05	8.21			
		2	8.54	8.46	8.62			
		3	9.15	9.07	9.23			
		4	9.38	9.30	9.46			
		5	9.56	9.48	9.64			
Aroclor 1221	1	1	NA	4.45	4.61			
		2	NA	5.69	5.85			
		3	NA	6.25	6.41			
		4	NA	6.44	6.60			
		5	NA	6.56	6.72			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.86	7.02			
		4	NA	7.07	7.23			
		5	NA	7.19	7.35			
Aroclor 1232	1	1	NA	6.56	6.72			
		2	7.92	7.83	7.99			
		3	8.54	8.45	8.61			
		4	8.75	8.66	8.82			
		5	8.89	8.80	8.96			
	2	1	NA	7.19	7.35			
		2	8.54	8.45	8.61			
		3	9.15	9.06	9.22			
		4	9.38	9.29	9.45			
		5	9.56	9.47	9.63			
Aroclor 1242	1	1	7.54	7.46	7.62			
		2	7.92	7.84	8.00			
		3	8.54	8.46	8.62			
		4	8.75	8.67	8.83			
		5	8.89	8.80	8.96	1.15		
	2	1	8.13	8.05	8.21			
		2	8.54	8.46	8.62			
		3	9.15	9.07	9.23			
		4	9.38	9.30	9.46			
		5	9.56	9.48	9.64	1.11	3.54	

Relative Percent Difference Llimit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>LCS-78(LAB CONTROL SPIKE)</u>
LRF Sample ID:	<u>LCS-78</u>	Lab Sample ID:	<u>AO03073L</u>
Instrument 1 ID:	<u>GC21F</u>	Instrument 2 ID:	<u>GC21B</u>
Date Analyzed:	<u>03/29/2011 6:29:29 PM</u>	Date Analyzed:	<u>03/29/2011 6:29:32 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC21F-1438-13</u>	Lab File ID 2:	<u>GC21B-1371-13</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.37	9.53			
		2	NA	10.02	10.18			
		3	NA	10.65	10.81			
		4	NA	10.81	10.97			
		5	NA	11.21	11.37			
	2	1	NA	9.99	10.15			
		2	NA	10.73	10.89			
		3	NA	11.34	11.50			
		4	NA	11.54	11.70			
		5	NA	12.01	12.17			
Aroclor 1254	1	1	NA	11.52	11.68			
		2	NA	12.17	12.33			
		3	NA	12.45	12.61			
		4	NA	13.91	14.07			
		5	NA	14.73	14.89			
	2	1	NA	12.20	12.36			
		2	NA	12.97	13.13			
		3	NA	13.26	13.42			
		4	NA	14.74	14.90			
		5	NA	15.61	15.77			
Aroclor 1260	1	1	NA	14.73	14.89			
		2	NA	16.94	17.10			
		3	NA	17.80	17.96			
		4	NA	18.54	18.70			
		5	NA	20.66	20.82			
	2	1	NA	15.60	15.76			
		2	NA	17.87	18.03			
		3	NA	19.06	19.22			
		4	NA	19.70	19.86			
		5	NA	22.33	22.49			
Aroclor 1262	1	1	NA	14.73	14.89			
		2	NA	16.94	17.10			
		3	NA	17.80	17.96			
		4	NA	18.55	18.71			
		5	NA	20.67	20.83			
	2	1	NA	15.61	15.77			
		2	NA	17.88	18.04			
		3	NA	19.06	19.22			
		4	NA	19.70	19.86			
		5	NA	22.33	22.49			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lins Version: 5.0.5.5

**10-B
PCB Identification Summary**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030199</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>LCS-78(LAB CONTROL SPIKE)</u>
LRF Sample ID:	<u>LCS-78</u>	Lab Sample ID:	<u>AO03073L</u>
Instrument 1 ID:	<u>GC21F</u>	Instrument 2 ID:	<u>GC21B</u>
Date Analyzed:	<u>03/29/2011 6:29:29 PM</u>	Date Analyzed:	<u>03/29/2011 6:29:32 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC21F-1438-13</u>	Lab File ID 2:	<u>GC21B-1371-13</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1268	1	1	NA	18.55	18.71			
		2	NA	20.66	20.82			
		3	NA	18.33	18.49			
		4	NA	19.80	19.96			
		5	NA	20.15	20.31			
	2	1	NA	19.69	19.85			
		2	NA	22.33	22.49			
		3	NA	19.45	19.61			
		4	NA	21.12	21.28			
		5	NA	21.56	21.72			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5



Date: March 31, 2011-D

NEA PACE Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: NEMASKET LOT
Sampling Date(s): March 24, 2011
NEA Report ID: 11030200
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis - SW-846 8082

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. This report shall not be reproduced, except in full, without the written consent of NEA - A Division of Pace Analytical Services, Inc.

A handwritten signature in black ink that reads "Robert E. Wagner".

Robert E. Wagner
Laboratory Director



Certifications: NY (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

NEA - A Division of Pace Analytical Services | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.nعالab.com | Email: information@neالab.com

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CASE NARRATIVE

March 31, 2011

CASE NARRATIVE

This data package (NEA SDG ID: 11030200) consists of 4 soil samples received on 03/26/2011. The samples are from Project Name: NEMASKET LOT.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AO03093	RG-ROW-1 5-7'	03/24/2011 14:10
AO03094	RG-ROW-1 9-10.5'	03/24/2011 14:15
AO03095	RG-ROW-1 10.5-12'*	03/24/2011 14:20
AO03096	DUP-1	03/24/2011 10:15
AO03097	DUP-2	03/24/2011 13:45

*Indicates on hold per client request.

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 03/26/2011.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 4.7 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

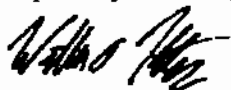
Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1260 were flagged (AG) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The percent recovery for the TCMX surrogate was not within acceptance limits for sample (LAB ID: AO03097). The alternate DCBP surrogate was within acceptance limits. Please see associated Form 2 for details.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the RL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



William A. Kotas
Client Services Manager

SAMPLE CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com Information@nealab.com

PAGE 5 OF 5
 <110302001>

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- RETURN TO CLIENT
 - DISPOSAL BY NORTHEAST ANALYTICAL
 - ARCHIVAL BY NORTHEAST ANALYTICAL
- Additional charges incurred for disposal (if hazardous) or archival. Call for details.



CLIENT REPORTS TO BE SENT TO:		PROJECT/PROJECT NAME:		ENTER ANALYSIS AND METHOD NUMBER REQUESTED		PRESERVATIVE KEY	
TRC Environmental		115058 Nemasket PO# 32047		PRESERVATIVE CODE: 0		0 - NONE	
PROJECT MANAGER:		PROJECT LOCATION (CITY/STATE):		BOTTLE TYPE: G		1 - HCL	
David Sullivan		New Bedford MA		BOTTLE SIZE: 4 OZ		2 - HNO3	
PHONE:		REQUIRED TURN AROUND TIME:		NUMBER OF CONTAINERS		3 - H2SO4	
978-656-3565 / 617-462-8090		5-day				4 - NaOH	
SAMPLER BY: (Please Print)		NAME OF COURIER (IF USED):		PCBs		6 - MeOH	
Jason Fiero / Zack Richards		FedEx				7 - NaHSO4	
SAMPLING FIRM:		Data Report: <input type="checkbox"/> CLP* <input type="checkbox"/> Certificates Only		LAB SAMPLE ID (NEA USE ONLY)		REMARKS:	
TRC Environmental							
ELECTRONIC RESULTS FORMAT: (E-MAIL ADDRESS: dsullivan@trcsolutions.com)		GRAB/COMP		1 X		1003093	
.PDF <input type="checkbox"/> EXCEL (CSV) <input type="checkbox"/>							
FAXED RESULTS <input type="checkbox"/> FAX #		DATE		1 X		1003094	
		3/24/11					
SAMPLE ID		TIME		1 H		HOLD 1003095	
RG-RGW-1 5-7'		14:10					
RG-RGW-1 9-10.5'		14:15		1 X		1003096	
		14:20					
DUP-1		10:15		1 X		1003097	
DUP-2		13:45					
AMBIENT OR CHILLED		TEMP: 4.7		PROPERLY PRESERVED: <input checked="" type="radio"/> Y <input type="radio"/> N		OTHER NOTES:	
RECEIVED BROKEN OR LEAKING		COO TAPE: <input checked="" type="radio"/> Y <input type="radio"/> N		RECYCLED HOLDING TIMES: <input checked="" type="radio"/> Y <input type="radio"/> N			
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:	
SIGNATURE: Jason Fiero		SIGNATURE: FedEx		SIGNATURE: K. Pugh		SIGNATURE:	
PRINTED NAME: JASON FIERO		PRINTED NAME: FedEx		PRINTED NAME: K. Pugh		PRINTED NAME:	
COMPANY: TRC		COMPANY: FedEx		COMPANY: PACE		COMPANY:	
DATE/TIME: 3/25/11 14:30		DATE/TIME:		DATE/TIME: 3/26/11 11:01		DATE/TIME:	

* CLP LIKE DATA PACKAGE ADDITIONAL COST

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep ID	NEA Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Initial for required Clean Up Steps						Date Conc (MM/DD)	Comments
													DATE Cleaned (MM/DD)	DATE TBA Cleaned (MM/DD)	DATE Floriall Shake (MM/DD)	CAP	DATE TBA Cleaned (MM/DD)	DATE Floriall Shake (MM/DD)		
1	130087	PBL4-78	AO000938	Soil	E PCB S	SOX	N/A	10.169	14:50	08:00	NA	NA	03/29	03/29	03/29	NA	25	03/29		
2	130088	LCS-78	AO03093L	Soil	E PCB S	SOX	N/A	10.402	14:50	08:00	NA	NA	03/29	03/29	03/29	NA	25	03/29		
3	130092	11030200-01	AO03093	Soil	E PCB S	SOX	87.2	10.546	14:50	08:00	NA	NA	03/29	03/29	03/29	NA	25	03/29		
4	130093	11030200-02	AO03094	Soil	E PCB S	SOX	25.6	10.235	14:50	08:00	NA	NA	03/29	03/29	03/29	NA	25	03/29		
5	130094	11030200-04	AO03096	Soil	E PCB S	SOX	61.8	10.311	14:50	08:00	NA	NA	03/29	03/29	03/29	NA	25	03/29		
6	130095	11030200-05	AO03097	Soil	E PCB S	SOX	74.2	10.534	14:50	08:00	NA	NA	03/29	03/29	03/29	NA	25	03/29		

Batch ID: 13420

Prep Date: 03/28/11

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Main Lab)	E48039	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexane	DC321	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sodium Sulfate	J24624	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Acetone (Dewar) CURRENT	DD070	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBA Solution (current)	122710MLB2P45D	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.5ppm TCMX/5.0ppm DCBP in hexane	011111B029P174A1-10	500	0.5/5.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aroclor 1242 @ 12.5PPM SPIKE	021011B030P012B	1000	12.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10% Floriall MAIN LAB	032411MLB2P35D	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Craig Petras

Jillian J Grygas

Analyst Review: Craig Petras

Peer Review: Jillian J Grygas

Craig Petras

Jillian J Grygas

PCB SCREEN SHEET

LRF: 11030200

Batch ID: 13420

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AO03093B	GC21B-1371-5	Soil	03/28/11	10.189	N/A	10.189	25	25	0.0086088	1	NA	25x	Jared Acker
	GC21F-1438-5	Soil	03/28/11	10.189	N/A	10.189	25	25	0.0086088	1	NA	25x	Jared Acker
AO03093L	GC21B-1371-8	Soil	03/28/11	10.402	N/A	10.402	25	25	0.82313	1	NA	25x	Jared Acker
	GC21F-1438-8	Soil	03/28/11	10.402	N/A	10.402	25	25	0.82313	1	NA	25x	Jared Acker
AO03093	GC21F-1438-7	Soil	03/28/11	10.548	67.2	7.0883	25	250	0.11869	2	2>4	50x	Jared Acker
	GC21B-1371-7	Soil	03/28/11	10.548	67.2	7.0883	25	250	0.11869	2	2>4	50x	Jared Acker
AO03094	GC21F-1438-8	Soil	03/28/11	10.235	25.6	2.6202	25	250	0.015703	1	NA	25x	Jared Acker
	GC21B-1371-8	Soil	03/28/11	10.235	25.8	2.6202	25	250	0.015703	1	NA	25x	Jared Acker
AO03096	GC21B-1371-9	Soil	03/28/11	10.311	61.8	6.3722	25	250	0.034003	1	NA	25x	Jared Acker
	GC21F-1438-9	Soil	03/28/11	10.311	61.8	6.3722	25	250	0.034003	1	NA	25x	Jared Acker
AO03097	GC21B-1371-10	Soil	03/28/11	10.534	74.2	7.8182	25	250	0.27176	5	1>5	125x	Jared Acker
	GC21F-1438-10	Soil	03/28/11	10.534	74.2	7.8182	25	250	0.27176	5	1>5	125x	Jared Acker

COMMENTS:

SURROGATE % RECOVERY SUMMARY

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**2F-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 11030200

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-79	AO03093B	GC21F-1438-5	105	109					0
PBLK-79	AO03093B	GC21B-1371-5			99.0	102			0
LCS-79	AO03093L	GC21F-1438-6	98.0	102					0
LCS-79	AO03093L	GC21B-1371-6			95.1	101			0
11030200-01	AO03093	GC21F-1438-7	100	114					0
11030200-01	AO03093	GC21B-1371-7			75.4	110			0
11030200-02	AO03094	GC21F-1438-8	96.8	103					0
11030200-02	AO03094	GC21B-1371-8			90.6	92.4			0
11030200-04	AO03096	GC21F-1438-9	99.7	107					0
11030200-04	AO03096	GC21B-1371-9			94.9	98.5			0
11030200-05	AO03097	GC21F-1438-10	91.7	113					0
11030200-05	AO03097	GC21B-1371-10			57.0	102			1

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Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)
 SURR2 = DECACHLOROBIPHENYL (60.0-140)

LABORATORY CONTROL SPIKE SUMMARY

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11030200

LCS ID: LCS-79

Blank Sample ID: PBLK-79

LCS File ID: GC21F-1438-6

Method Blank File ID: GC21F-1438-5

LCS Inj Date: 03/29/2011 14:39:30

Method Blank Inj Date: 03/29/2011 14:06:39

LCS NEA ID No: AO03093L

Method Blank NEA ID No: AO03093B

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.20	1.09	90.5	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

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COMMENTS: _____

**3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11030200

LCS ID: LCS-79

Blank Sample ID: PBLK-79

LCS File ID: GC21B-1371-6

Method Blank File ID: GC21B-1371-5

LCS Inj Date: 03/29/2011 14:39:34

Method Blank Inj Date: 03/29/2011 14:06:42

LCS NEA ID No: AO03093L

Method Blank NEA ID No: AO03093B

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.20	1.13	93.9	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

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COMMENTS: _____

METHOD BLANK SUMMARY

**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030200</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-79</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AO03093B</u>
Instrument ID: <u>GC21F</u>	Lab File ID: <u>GC21F-1438-5</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>03/28/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>03/29/2011</u>
	Time Analyzed: <u>14:06:39</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
RG-ROW-1 5-7'	AO03093	GC21F-1438-7	03/29/2011 15:12:21
RG-ROW-1 9-10.5'	AO03094	GC21F-1438-8	03/29/2011 15:45:12
DUP-1	AO03096	GC21F-1438-9	03/29/2011 16:18:03
DUP-2	AO03097	GC21F-1438-10	03/29/2011 16:50:55

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**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030200</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-79</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AO03093B</u>
Instrument ID: <u>GC21B</u>	Lab File ID: <u>GC21B-1371-5</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>03/28/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>03/29/2011</u>
	Time Analyzed: <u>14:06:42</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
RG-ROW-1 5-7'	AO03093	GC21B-1371-7	03/29/2011 15:12:25
RG-ROW-1 9-10.5'	AO03094	GC21B-1371-8	03/29/2011 15:45:16
DUP-1	AO03096	GC21B-1371-9	03/29/2011 16:18:07
DUP-2	AO03097	GC21B-1371-10	03/29/2011 16:50:59

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SAMPLE ANALYSIS DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030200</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11030200-01</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-1 5-7'</u>
Sample wt(Dry)/vol:	<u>7.0883 g</u>	Lab Sample ID:	<u>AO03093</u>
Percent Moisture:	<u>32.8</u>	Date Received:	<u>03/26/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>03/28/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 6082 (PCB)</u>	Dilution Factor:	<u>2</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1371-7

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1438-7

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.141	U
1	11104-28-2	Aroclor 1221	0.141	U
1	11141-16-5	Aroclor 1232	0.141	U
1	53469-21-9	Aroclor 1242	0.141	U
1	12672-29-6	Aroclor 1248	0.141	U
1	11097-69-1	Aroclor 1254	2.72	AF
1	11096-82-5	Aroclor 1260	0.680	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11030200-01
 Instrument 1 ID: GC21B
 Date Analyzed: 03/29/2011 3:12:25 PM
 GC Column 1: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC21B-1371-7
 Matrix: Soil

SDG No: 11030200
 Client ID: RG-ROW-1 5-7
 Lab Sample ID: AO03093
 Instrument 2 ID: GC21F
 Date Analyzed: 03/29/2011 3:12:21 PM
 GC Column 2: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC21F-1438-7

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	8.05	8.21			
		2	NA	8.46	8.62			
		3	NA	9.07	9.23			
		4	NA	9.30	9.46			
		5	NA	9.48	9.64			
	2	1	NA	7.46	7.62			
		2	NA	7.84	8.00			
		3	NA	8.46	8.62			
		4	NA	8.67	8.83			
		5	NA	8.80	8.96			
Aroclor 1221	1	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.86	7.02			
		4	NA	7.07	7.23			
		5	NA	7.19	7.35			
	2	1	NA	4.45	4.61			
		2	NA	5.69	5.85			
		3	NA	6.25	6.41			
		4	NA	6.44	6.60			
		5	NA	6.56	6.72			
Aroclor 1232	1	1	NA	7.19	7.35			
		2	NA	8.45	8.61			
		3	NA	9.06	9.22			
		4	NA	9.29	9.45			
		5	NA	9.47	9.63			
	2	1	NA	6.56	6.72			
		2	NA	7.83	7.99			
		3	NA	8.45	8.61			
		4	NA	8.66	8.82			
		5	NA	8.80	8.96			
Aroclor 1242	1	1	NA	8.05	8.21			
		2	NA	8.46	8.62			
		3	NA	9.07	9.23			
		4	NA	9.30	9.46			
		5	NA	9.48	9.64			
	2	1	NA	7.46	7.62			
		2	NA	7.84	8.00			
		3	NA	8.46	8.62			
		4	NA	8.67	8.83			
		5	NA	8.80	8.96			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11030200
ELAP ID No:	11078	Client ID:	RG-ROW-1 5-7
LRF Sample ID:	11030200-01	Lab Sample ID:	AO03093
Instrument 1 ID:	GC21B	Instrument 2 ID:	GC21F
Date Analyzed:	03/29/2011 3:12:25 PM	Date Analyzed:	03/29/2011 3:12:21 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC21B-1371-7	Lab File ID 2:	GC21F-1438-7
Matrix:	Soil		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	10.08	9.99	10.15			
		2	10.81	10.73	10.89			
		3	11.43	11.34	11.50			
		4	11.65	11.54	11.70			
		5	12.12	12.01	12.17			
	2	1	9.45	9.37	9.53			
		2	10.10	10.02	10.18			
		3	10.74	10.65	10.81			
		4	10.94	10.81	10.97			
		5	11.33	11.21	11.37			
Aroclor 1254	1	1	12.29	12.20	12.36			
		2	13.06	12.97	13.13			
		3	13.35	13.26	13.42			
		4	14.83	14.74	14.90			
		5	15.69	15.61	15.77	2.72		
	2	1	11.61	11.52	11.68			
		2	12.26	12.17	12.33			
		3	12.54	12.45	12.61			
		4	14.01	13.91	14.07			
		5	14.82	14.73	14.89	2.68	1.48	
Aroclor 1260	1	1	15.69	15.60	15.76			
		2	17.97	17.87	18.03			
		3	19.15	19.06	19.22			
		4	19.79	19.70	19.86			
		5	22.43	22.33	22.49	0.680		
	2	1	14.82	14.73	14.89			
		2	17.03	16.94	17.10			
		3	17.89	17.80	17.96			
		4	18.64	18.54	18.70			
		5	20.75	20.66	20.82	0.666	2.08	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030200</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11030200-02</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-1 9-10.5'</u>
Sample wt(Dry)/vol:	<u>2.6202 g</u>	Lab Sample ID:	<u>A003094</u>
Percent Moisture:	<u>74.4</u>	Date Received:	<u>03/26/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>03/28/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 6062 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21F-1438-8

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC21B-1371-8

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/G	
1	12674-11-2	Aroclor 1016	0.191	U
1	11104-28-2	Aroclor 1221	0.191	U
1	11141-16-5	Aroclor 1232	0.191	U
1	53469-21-9	Aroclor 1242	0.191	U
1	12672-29-6	Aroclor 1248	0.191	U
1	11097-69-1	Aroclor 1254	0.191	U
1	11096-82-5	Aroclor 1260	0.191	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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ANALYTICAL SEQUENCE (GC21F)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030200

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>5.93</u>	DCBP RT: <u>25.06</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	031116A	GC21F-1425-3	03/11/2011 16:43:53	
02	A1016 100 PPB	031116B	GC21F-1425-4	03/11/2011 17:16:46	
03	A1016 250 PPB	031116C	GC21F-1425-5	03/11/2011 17:49:38	
04	A1016 500 PPB	031116D	GC21F-1425-6	03/11/2011 18:22:29	
05	A1016 1000 PPB	031116E	GC21F-1425-7	03/11/2011 18:55:20	
06	A1221 20 PPB	031121A	GC21F-1425-8	03/11/2011 19:28:11	
07	A1221 100 PPB	031121B	GC21F-1425-9	03/11/2011 20:01:03	
08	A1221 250 PPB	031121C	GC21F-1425-10	03/11/2011 20:33:54	
09	A1221 500 PPB	031121D	GC21F-1425-11	03/11/2011 21:06:46	
10	A1221 1000 PPB	031121E	GC21F-1425-12	03/11/2011 21:39:37	
11	A1232 20 PPB	031132A	GC21F-1425-13	03/11/2011 22:12:29	
12	A1232 100 PPB	031132B	GC21F-1425-14	03/11/2011 22:45:20	
13	A1232 250 PPB	031132C	GC21F-1425-15	03/11/2011 23:18:12	
14	A1232 500 PPB	031132D	GC21F-1425-16	03/11/2011 23:51:03	
15	A1232 1000 PPB	031132E	GC21F-1425-17	03/12/2011 00:23:54	
16	A1242 20 PPB	031142A	GC21F-1425-18	03/12/2011 00:56:47	
17	A1242 100 PPB	031142B	GC21F-1425-19	03/12/2011 01:29:38	
18	A1242 250 PPB	031142C	GC21F-1425-20	03/12/2011 02:02:29	
19	A1242 500 PPB	031142D	GC21F-1425-21	03/12/2011 02:35:19	
20	A1242 1000 PPB	031142E	GC21F-1425-22	03/12/2011 03:08:12	
21	A1248 20 PPB	031148A	GC21F-1425-23	03/12/2011 03:41:03	
22	A1248 100 PPB	031148B	GC21F-1425-24	03/12/2011 04:13:55	
23	A1248 250 PPB	031148C	GC21F-1425-25	03/12/2011 04:46:46	
24	A1248 500 PPB	031148D	GC21F-1425-26	03/12/2011 05:19:38	
25	A1248 1000 PPB	031148E	GC21F-1425-27	03/12/2011 05:52:30	
26	A1254 100 PPB	031154B	GC21F-1425-28	03/12/2011 06:25:22	5.93
27	A1254 20 PPB	031154A	GC21F-1425-29	03/12/2011 06:58:12	5.93
28	A1254 250 PPB	031154C	GC21F-1425-30	03/12/2011 07:31:03	5.93
29	A1254 500 PPB	031154D	GC21F-1425-31	03/12/2011 08:03:54	5.93
30	A1254 1000 PPB	031154E	GC21F-1425-32	03/12/2011 08:36:46	5.93
31	A1260 20 PPB	031160A	GC21F-1425-33	03/12/2011 09:09:37	
32	A1260 100 PPB	031160B	GC21F-1425-34	03/12/2011 09:42:28	
33	A1260 250 PPB	031160C	GC21F-1425-35	03/12/2011 10:15:19	
34	A1260 500 PPB	031160D	GC21F-1425-36	03/12/2011 10:48:11	
35	A1260 1000 PPB	031160E	GC21F-1425-37	03/12/2011 11:21:02	
36	A1262 20 PPB	031162A	GC21F-1425-38	03/12/2011 11:53:53	
37	A1262 100 PPB	031162B	GC21F-1425-39	03/12/2011 12:26:44	
38	A1262 250 PPB	031162C	GC21F-1425-40	03/12/2011 12:59:35	

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lims Version 5.0.5.5

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030200

ELAP ID No: 11078

Instrument ID: GC21F

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 5.93 DCBP RT: 25.06

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	031162D	GC21F-1425-41	03/12/2011 13:32:26		
40	A1262 1000 PPB	031162E	GC21F-1425-42	03/12/2011 14:05:18		
41	A1268 20 PPB	031168A	GC21F-1425-43	03/12/2011 14:38:09		
42	A1268 100 PPB	031168B	GC21F-1425-44	03/12/2011 15:11:00		
43	A1268 250 PPB	031168C	GC21F-1425-45	03/12/2011 15:43:52		
44	A1268 500 PPB	031168D	GC21F-1425-46	03/12/2011 16:16:44		
45	A1268 1000 PPB	031168E	GC21F-1425-47	03/12/2011 16:49:35		
46	IUPAC 15 20 PPB	0314FSA	GC21F-1425-60	03/14/2011 10:51:18		
47	IUPAC 15 50 PPB	0314FSB	GC21F-1425-61	03/14/2011 11:24:10		
48	IUPAC 15 80 PPB	0314FSC	GC21F-1425-62	03/14/2011 11:57:01		
49	IUPAC 15 100 PPB	0314FSD	GC21F-1425-63	03/14/2011 12:29:52		
50	IUPAC 15 200 PPB	0314FSE	GC21F-1425-64	03/14/2011 13:02:43		
51	A1016 500 PPB	CS160314A	GC21F-1425-66	03/14/2011 14:08:26	5.93	25.04
52	A1221 500 PPB	CS210314A	GC21F-1425-67	03/14/2011 14:41:18	5.93	25.03
53	A1232 500 PPB	CS320314A	GC21F-1425-68	03/14/2011 15:14:09	5.93	25.03
54	A1242 500 PPB	CS420314A	GC21F-1425-69	03/14/2011 15:47:00	5.93	25.04
55	A1248 500 PPB	CS480314A	GC21F-1425-70	03/14/2011 16:19:51	5.93	25.03
56	A1254 500 PPB	CS540314A	GC21F-1425-71	03/14/2011 16:52:42	5.93	25.03
57	A1260 500 PPB	CS600314A	GC21F-1425-72	03/14/2011 17:25:33	5.93	25.03
56	A1262 500 PPB	CS620314A	GC21F-1425-73	03/14/2011 17:58:24	5.93	25.04
59	A1268 500 PPB	CS680314A	GC21F-1425-74	03/14/2011 18:31:15	5.93	25.03
60	SURR IUPAC 15 70 PPB	110314FS01	GC21F-1425-75	03/14/2011 19:04:06	5.93	25.05
61	A1232 500 PPB	CS320329A	GC21F-1438-3	03/29/2011 12:06:00	5.93	25.04
62	PBLK-79(METHOD BLANK)	AO03093B	GC21F-1438-5	03/29/2011 14:06:39	5.93	25.04
63	LCS-79(LAB CONTROL SPIKE)	AO03093L	GC21F-1438-6	03/29/2011 14:39:30	5.93	25.04
64	RG-ROW-1 5-7'	AO03093	GC21F-1438-7	03/29/2011 15:12:21	5.93	25.04
65	RG-ROW-1 9-10.5'	AO03094	GC21F-1438-8	03/29/2011 15:45:12	5.93	25.05
66	DUP-1	AO03096	GC21F-1438-9	03/29/2011 16:18:03	5.93	25.04
67	DUP-2	AO03097	GC21F-1438-10	03/29/2011 16:50:55	5.93	25.04
68	A1242 500 PPB	CS420329A	GC21F-1438-11	03/29/2011 17:23:47	5.93	25.04

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lims Version: 5.0.5.5

INITIAL CALIBRATION DATA (GC21F)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030200
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC21F-1425-3	031116A	20.0	80.892		
	GC21F-1425-4	031116B	100	91.315		
	GC21F-1425-5	031116C	250	84.840		
	GC21F-1425-6	031116D	500	84.133		
	GC21F-1425-7	031116E	1000	79.800	84.196	5.4
Aroclor 1221	GC21F-1425-8	031121A	20.0	24.208		
	GC21F-1425-9	031121B	100	25.122		
	GC21F-1425-10	031121C	250	24.662		
	GC21F-1425-11	031121D	500	22.567		
	GC21F-1425-12	031121E	1000	22.043	23.720	5.7
Aroclor 1232	GC21F-1425-13	031132A	20.0	42.018		
	GC21F-1425-14	031132B	100	40.939		
	GC21F-1425-15	031132C	250	41.091		
	GC21F-1425-16	031132D	500	39.718		
	GC21F-1425-17	031132E	1000	39.035	40.560	2.9
Aroclor 1242	GC21F-1425-18	031142A	20.0	75.584		
	GC21F-1425-19	031142B	100	72.310		
	GC21F-1425-20	031142C	250	74.392		
	GC21F-1425-21	031142D	500	74.520		
	GC21F-1425-22	031142E	1000	70.168	73.395	2.9
Aroclor 1248	GC21F-1425-23	031148A	20.0	67.932		
	GC21F-1425-24	031148B	100	75.340		
	GC21F-1425-25	031148C	250	75.049		
	GC21F-1425-26	031148D	500	70.150		
	GC21F-1425-27	031148E	1000	71.176	71.929	4.5
Aroclor 1254	GC21F-1425-29	031154A	20.0	111.528		
	GC21F-1425-28	031154B	100	117.476		
	GC21F-1425-30	031154C	250	113.797		
	GC21F-1425-31	031154D	500	110.455		
	GC21F-1425-32	031154E	1000	105.946	111.841	3.8
Aroclor 1260	GC21F-1425-33	031160A	20.0	132.290		
	GC21F-1425-34	031160B	100	133.443		
	GC21F-1425-35	031160C	250	130.897		
	GC21F-1425-36	031160D	500	130.670		
	GC21F-1425-37	031160E	1000	120.984	129.657	3.8
Aroclor 1262	GC21F-1425-38	031182A	20.0	138.870		
	GC21F-1425-39	031162B	100	135.528		
	GC21F-1425-40	031182C	250	141.432		
	GC21F-1425-41	031182D	500	140.464		
	GC21F-1425-42	031162E	1000	129.566	137.132	3.5

FORM VI-CLP-PCB(NEA-PACE)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030200
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC21F-1425-43	031168A	20.0	271.193		
	GC21F-1425-44	031168B	100	277.620		
	GC21F-1425-45	031168C	250	268.054		
	GC21F-1425-46	031168D	500	247.108		
	GC21F-1425-47	031168E	1000	241.469	261.089	6.1
TCMX	GC21F-1425-29	031154A	2.00	488.907		
	GC21F-1425-28	031154B	5.00	471.002		
	GC21F-1425-30	031154C	8.00	456.151		
	GC21F-1425-31	031154D	10.0	456.889		
	GC21F-1425-32	031154E	20.0	435.936	461.777	4.3
4,4'-Dibromobiphenyl	GC21F-1425-60	0314FSA	20.0	259.225		
	GC21F-1425-61	0314FSB	50.0	244.499		
	GC21F-1425-62	0314FSC	80.0	237.202		
	GC21F-1425-63	0314FSD	100	239.501		
	GC21F-1425-64	0314FSE	200	226.267	241.339	5.0
DCBP	GC21F-1425-29	031154A	20.0	517.601		
	GC21F-1425-28	031154B	50.0	493.896		
	GC21F-1425-30	031154C	80.0	468.074		
	GC21F-1425-31	031154D	100	469.605		
	GC21F-1425-32	031154E	200	445.781	478.991	5.7

% RSD Limit <= 20%
 TCMX=TETRACHLOROMETAXYLENE
 DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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**INITIAL/CONTINUING CALIBRATION DATA
(GC21F)**

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030200

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC21F-1425-66	CS160314A	ICV	499	500	-0.153	03/14/2011 14:08:26
Aroclor 1221	GC21F-1425-67	CS210314A	ICV	509	500	1.86	03/14/2011 14:41:18
Aroclor 1232	GC21F-1425-68	CS320314A	ICV	496	500	-0.867	03/14/2011 15:14:09
Aroclor 1242	GC21F-1425-69	CS420314A	ICV	450	500	-9.95	03/14/2011 15:47:00
Aroclor 1248	GC21F-1425-70	CS480314A	ICV	462	500	-3.51	03/14/2011 16:19:51
Aroclor 1254	GC21F-1425-71	CS540314A	ICV	460	500	-3.97	03/14/2011 16:52:42
Aroclor 1260	GC21F-1425-72	CS600314A	ICV	479	500	-4.30	03/14/2011 17:25:33
Aroclor 1262	GC21F-1425-73	CS620314A	ICV	495	500	-1.02	03/14/2011 17:58:24
Aroclor 1268	GC21F-1425-74	CS680314A	ICV	462	500	-7.61	03/14/2011 18:31:15
Aroclor 1232	GC21F-1438-3	CS320329A	CCV	492	500	-1.58	03/29/2011 12:06:00
Aroclor 1242	GC21F-1438-11	CS420329A	CCV	450	500	-9.98	03/29/2011 17:23:47

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030200

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC21F-1425-66	CS160314A	ICV	1	7.54	7.46	7.62
		CS160314A	ICV	2	7.92	7.84	8.00
		CS160314A	ICV	3	8.54	8.46	8.62
		CS160314A	ICV	4	8.75	8.67	8.83
		CS160314A	ICV	5	8.88	8.80	8.96
Aroclor 1221	GC21F-1425-67	CS210314A	ICV	1	4.53	4.45	4.61
		CS210314A	ICV	2	5.77	5.69	5.85
		CS210314A	ICV	3	6.33	6.25	6.41
		CS210314A	ICV	4	6.52	6.44	6.60
		CS210314A	ICV	5	6.84	6.56	6.72
Aroclor 1232	GC21F-1425-68	CS320314A	ICV	1	6.64	6.56	6.72
		CS320314A	ICV	2	7.91	7.83	7.99
		CS320314A	ICV	3	8.53	8.45	8.61
		CS320314A	ICV	4	8.74	8.66	8.82
		CS320314A	ICV	5	8.88	8.80	8.96
Aroclor 1242	GC21F-1425-69	CS420314A	ICV	1	7.54	7.48	7.62
		CS420314A	ICV	2	7.92	7.84	8.00
		CS420314A	ICV	3	8.54	8.46	8.62
		CS420314A	ICV	4	8.75	8.67	8.83
		CS420314A	ICV	5	6.88	8.80	8.96
Aroclor 1248	GC21F-1425-70	CS480314A	ICV	1	9.45	9.37	9.53
		CS480314A	ICV	2	10.10	10.02	10.18
		CS480314A	ICV	3	10.73	10.65	10.81
		CS480314A	ICV	4	10.89	10.81	10.97
		CS480314A	ICV	5	11.29	11.21	11.37
Aroclor 1254	GC21F-1425-71	CS540314A	ICV	1	11.60	11.52	11.88
		CS540314A	ICV	2	12.25	12.17	12.33
		CS540314A	ICV	3	12.53	12.45	12.61
		CS540314A	ICV	4	13.99	13.91	14.07
		CS540314A	ICV	5	14.81	14.73	14.89
Aroclor 1260	GC21F-1425-72	CS600314A	ICV	1	14.81	14.73	14.89
		CS600314A	ICV	2	17.02	16.94	17.10
		CS600314A	ICV	3	17.88	17.80	17.96
		CS600314A	ICV	4	18.82	18.54	18.70
		CS800314A	ICV	5	20.74	20.66	20.82
Aroclor 1262	GC21F-1425-73	CS620314A	ICV	1	14.81	14.73	14.89
		CS620314A	ICV	2	17.02	16.94	17.10
		CS620314A	ICV	3	17.88	17.80	17.96

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030200

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620314A	ICV	4	18.63	18.55	18.71
		CS620314A	ICV	5	20.75	20.67	20.83
Aroclor 1268	GC21F-1425-74	CS680314A	ICV	1	18.63	18.55	18.71
		CS680314A	ICV	2	20.74	20.88	20.82
		CS680314A	ICV	3	18.41	18.33	18.49
		CS680314A	ICV	4	19.88	19.80	19.96
		CS680314A	ICV	5	20.23	20.15	20.31

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030200

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1232	GC21F-1438-3	CS320329A	CCV	1	6.64	6.56	6.72
		CS320329A	CCV	2	7.92	7.83	7.99
		CS320329A	CCV	3	8.53	8.45	8.61
		CS320329A	CCV	4	8.74	8.66	8.82
		CS320329A	CCV	5	8.88	8.80	8.96
Aroclor 1242	GC21F-1438-11	CS420329A	CCV	1	7.54	7.46	7.62
		CS420329A	CCV	2	7.92	7.84	8.00
		CS420329A	CCV	3	8.54	8.46	8.62
		CS420329A	CCV	4	8.75	8.67	8.83
		CS420329A	CCV	5	8.89	8.80	8.96

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

ANALYTICAL SEQUENCE (GC21B)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030200

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.51</u>	DCBP RT: <u>27.37</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 20 PPB	031116A	GC21B-1358-3	03/11/2011 16:43:58	
02	A1016 100 PPB	031116B	GC21B-1358-4	03/11/2011 17:16:50	
03	A1016 250 PPB	031116C	GC21B-1358-5	03/11/2011 17:49:43	
04	A1016 500 PPB	031116D	GC21B-1358-6	03/11/2011 18:22:33	
05	A1016 1000 PPB	031116E	GC21B-1358-7	03/11/2011 18:55:24	
06	A1221 20 PPB	031121A	GC21B-1358-8	03/11/2011 19:28:15	
07	A1221 100 PPB	031121B	GC21B-1358-9	03/11/2011 20:01:07	
08	A1221 250 PPB	031121C	GC21B-1358-10	03/11/2011 20:33:59	
09	A1221 500 PPB	031121D	GC21B-1358-11	03/11/2011 21:06:50	
10	A1221 1000 PPB	031121E	GC21B-1358-12	03/11/2011 21:39:42	
11	A1232 20 PPB	031132A	GC21B-1358-13	03/11/2011 22:12:34	
12	A1232 100 PPB	031132B	GC21B-1358-14	03/11/2011 22:45:25	
13	A1232 250 PPB	031132C	GC21B-1358-15	03/11/2011 23:18:17	
14	A1232 500 PPB	031132D	GC21B-1358-16	03/11/2011 23:51:08	
15	A1232 1000 PPB	031132E	GC21B-1358-17	03/12/2011 00:23:59	
16	A1242 20 PPB	031142A	GC21B-1358-18	03/12/2011 00:56:51	
17	A1242 100 PPB	031142B	GC21B-1358-19	03/12/2011 01:29:43	
18	A1242 250 PPB	031142C	GC21B-1358-20	03/12/2011 02:02:33	
19	A1242 500 PPB	031142D	GC21B-1358-21	03/12/2011 02:35:24	
20	A1242 1000 PPB	031142E	GC21B-1358-22	03/12/2011 03:08:16	
21	A1248 20 PPB	031148A	GC21B-1358-23	03/12/2011 03:41:07	
22	A1248 100 PPB	031148B	GC21B-1358-24	03/12/2011 04:13:59	
23	A1248 250 PPB	031148C	GC21B-1358-25	03/12/2011 04:46:50	
24	A1248 500 PPB	031148D	GC21B-1358-26	03/12/2011 05:19:42	
25	A1248 1000 PPB	031148E	GC21B-1358-27	03/12/2011 05:52:34	
26	A1254 100 PPB	031154B	GC21B-1358-28	03/12/2011 06:25:25	6.51 27.38
27	A1254 20 PPB	031154A	GC21B-1358-29	03/12/2011 06:58:15	6.51 27.37
28	A1254 250 PPB	031154C	GC21B-1358-30	03/12/2011 07:31:06	6.51 27.37
29	A1254 500 PPB	031154D	GC21B-1358-31	03/12/2011 08:03:58	6.51 27.38
30	A1254 1000 PPB	031154E	GC21B-1358-32	03/12/2011 08:36:50	6.51 27.37
31	A1260 20 PPB	031160A	GC21B-1358-33	03/12/2011 09:09:41	
32	A1260 100 PPB	031160B	GC21B-1358-34	03/12/2011 09:42:32	
33	A1260 250 PPB	031160C	GC21B-1358-35	03/12/2011 10:15:23	
34	A1260 500 PPB	031160D	GC21B-1358-36	03/12/2011 10:48:15	
35	A1260 1000 PPB	031160E	GC21B-1358-37	03/12/2011 11:21:05	
36	A1262 20 PPB	031162A	GC21B-1358-38	03/12/2011 11:53:56	
37	A1262 100 PPB	031162B	GC21B-1358-39	03/12/2011 12:26:47	
38	A1262 250 PPB	031162C	GC21B-1358-40	03/12/2011 12:59:38	

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lms Version 5.0.5.5

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11030200

ELAP ID No: 11078

Instrument ID: GC21B

Init. Calib. Date(s): 03/11/11,03/12/11,03/14/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>6.51</u>			DCBP RT: <u>27.37</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
39	A1262 500 PPB	031162D	GC21B-1358-41	03/12/2011 13:32:30	
40	A1262 1000 PPB	031162E	GC21B-1358-42	03/12/2011 14:05:21	
41	A1268 20 PPB	031168A	GC21B-1358-43	03/12/2011 14:38:13	
42	A1268 100 PPB	031168B	GC21B-1358-44	03/12/2011 15:11:04	
43	A1268 250 PPB	031168C	GC21B-1358-45	03/12/2011 15:43:56	
44	A1268 500 PPB	031168D	GC21B-1358-46	03/12/2011 16:16:48	
45	A1268 1000 PPB	031168E	GC21B-1358-47	03/12/2011 16:49:38	
46	IUPAC 15 20 PPB	0314FSA	GC21B-1358-60	03/14/2011 10:51:22	
47	IUPAC 15 50 PPB	0314FSB	GC21B-1358-61	03/14/2011 11:24:14	
48	IUPAC 15 80 PPB	0314FSC	GC21B-1358-62	03/14/2011 11:57:05	
49	IUPAC 15 100 PPB	0314FSD	GC21B-1358-63	03/14/2011 12:29:56	
50	IUPAC 15 200 PPB	0314FSE	GC21B-1358-64	03/14/2011 13:02:48	
51	A1016 500 PPB	CS160314A	GC21B-1358-66	6.51	27.35
52	A1221 500 PPB	CS210314A	GC21B-1358-67	6.51	27.34
53	A1232 500 PPB	CS320314A	GC21B-1358-68	6.50	27.35
54	A1242 500 PPB	CS420314A	GC21B-1358-69	6.51	27.35
55	A1248 500 PPB	CS480314A	GC21B-1358-70	6.50	27.35
56	A1254 500 PPB	CS540314A	GC21B-1358-71	6.51	27.35
57	A1260 500 PPB	CS600314A	GC21B-1358-72	6.51	27.34
58	A1262 500 PPB	CS620314A	GC21B-1358-73	6.51	27.35
59	A1268 500 PPB	CS680314A	GC21B-1358-74	6.51	27.35
60	SURR IUPAC 15 70 PPB	110314FS01	GC21B-1358-75	6.52	27.37
61	A1232 500 PPB	CS320329A	GC21B-1371-3	6.51	27.36
62	PBLK-79(METHOD BLANK)	AO03093B	GC21B-1371-5	6.51	27.37
63	LCS-79(LAB CONTROL SPIKE)	AO03093L	GC21B-1371-6	6.51	27.37
64	RG-ROW-1 5-7'	AO03093	GC21B-1371-7	6.51	27.37
65	RG-ROW-1 9-10.5'	AO03094	GC21B-1371-8	6.51	27.37
66	DUP-1	AO03096	GC21B-1371-9	6.50	27.36
67	DUP-2	AO03097	GC21B-1371-10	6.50	27.36
68	A1242 500 PPB	CS420329A	GC21B-1371-11	6.51	27.37

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 3/31/2011
Lms Version: 5.0.5.5

INITIAL CALIBRATION DATA (GC21B)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030200
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD	
Aroclor 1016	GC21B-1358-3	031116A	20.0	94.632			
	GC21B-1358-4	031116B	100	98.739			
	GC21B-1358-5	031116C	250	91.424			
	GC21B-1358-6	031116D	500	85.900			
	GC21B-1358-7	031116E	1000	82.370	90.613	7.3	
Aroclor 1221	GC21B-1358-8	031121A	20.0	25.923			
	GC21B-1358-9	031121B	100	24.898			
	GC21B-1358-10	031121C	250	23.671			
	GC21B-1358-11	031121D	500	23.996			
	GC21B-1358-12	031121E	1000	22.895	24.276	4.8	
Aroclor 1232	GC21B-1358-13	031132A	20.0	37.199			
	GC21B-1358-14	031132B	100	45.723			
	GC21B-1358-15	031132C	250	42.085			
	GC21B-1358-18	031132D	500	41.496			
	GC21B-1358-17	031132E	1000	42.423	41.785	7.3	
Aroclor 1242	GC21B-1358-18	031142A	20.0	79.466			
	GC21B-1358-19	031142B	100	76.688			
	GC21B-1358-20	031142C	250	77.633			
	GC21B-1358-21	031142D	500	75.885			
		GC21B-1358-22	031142E	1000	71.100	76.154	4.1
	Aroclor 1246	GC21B-1358-23	031148A	20.0	81.489		
GC21B-1358-24		031148B	100	81.431			
GC21B-1358-25		031148C	250	79.335			
GC21B-1358-26		031148D	500	74.865			
		GC21B-1358-27	031148E	1000	75.745	78.573	4.0
Aroclor 1254		GC21B-1358-29	031154A	20.0	138.240		
	GC21B-1358-28	031154B	100	134.540			
	GC21B-1358-30	031154C	250	130.888			
	GC21B-1358-31	031154D	500	123.817			
		GC21B-1358-32	031154E	1000	121.696	129.836	5.4
Aroclor 1260	GC21B-1358-33	031160A	20.0	163.077			
	GC21B-1358-34	031160B	100	185.477			
	GC21B-1358-35	031160C	250	184.114			
	GC21B-1358-36	031160D	500	178.429			
		GC21B-1358-37	031160E	1000	173.465	176.912	5.1
	Aroclor 1262	GC21B-1358-38	031162A	20.0	183.589		
GC21B-1358-39		031162B	100	186.133			
GC21B-1358-40		031162C	250	199.774			
		GC21B-1358-41	031162D	500	187.716		
		GC21B-1358-42	031162E	1000	185.774	188.597	3.4

FORM VI-CLP-PCB(NEA-PACE)

12

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030200
 Date(s) Analyzed: 03/11/11,03/12/11,03/14/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC21B-1358-43	031168A	20.0	348.303		
	GC21B-1358-44	031168B	100	356.499		
	GC21B-1358-45	031168C	250	340.982		
	GC21B-1358-46	031168D	500	326.090		
	GC21B-1358-47	031168E	1000	319.904	338.356	4.5
TCMX	GC21B-1358-29	031154A	2.00	533.555		
	GC21B-1358-28	031154B	5.00	502.196		
	GC21B-1358-30	031154C	8.00	497.695		
	GC21B-1358-31	031154D	10.0	483.808		
	GC21B-1358-32	031154E	20.0	468.488	497.148	4.9
4,4'-Dibromobiphenyl	GC21B-1358-60	0314FSA	20.0	297.154		
	GC21B-1358-61	0314FSB	50.0	284.899		
	GC21B-1358-62	0314FSC	60.0	275.012		
	GC21B-1358-63	0314FSD	100	263.534		
	GC21B-1358-64	0314FSE	200	254.528	275.025	6.1
DCBP	GC21B-1358-29	031154A	20.0	575.342		
	GC21B-1358-28	031154B	50.0	571.216		
	GC21B-1358-30	031154C	80.0	532.309		
	GC21B-1358-31	031154D	100	529.661		
	GC21B-1358-32	031154E	200	519.739	545.654	4.7

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

INITIAL/CONTINUING CALIBRATION DATA (GC21B)

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11030200

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC21B-1358-66	CS160314A	ICV	484	500	-3.19	03/14/2011 14:08:31
Aroclor 1221	GC21B-1358-67	CS210314A	ICV	492	500	-1.64	03/14/2011 14:41:22
Aroclor 1232	GC21B-1358-68	CS320314A	ICV	484	500	-7.24	03/14/2011 15:14:13
Aroclor 1242	GC21B-1358-69	CS420314A	ICV	455	500	-8.93	03/14/2011 15:47:04
Aroclor 1248	GC21B-1358-70	CS480314A	ICV	474	500	-5.14	03/14/2011 16:19:55
Aroclor 1254	GC21B-1358-71	CS540314A	ICV	489	500	-2.17	03/14/2011 16:52:46
Aroclor 1260	GC21B-1358-72	CS600314A	ICV	458	500	-8.44	03/14/2011 17:25:37
Aroclor 1262	GC21B-1358-73	CS620314A	ICV	502	500	0.383	03/14/2011 17:58:28
Aroclor 1268	GC21B-1358-74	CS680314A	ICV	473	500	-5.31	03/14/2011 18:31:20
Aroclor 1232	GC21B-1371-3	CS320329A	CCV	462	500	-7.60	03/29/2011 12:06:04
Aroclor 1242	GC21B-1371-11	CS420329A	CCV	439	500	-12.1	03/29/2011 17:23:51

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebtron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030200

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC21B-1358-66	CS160314A	ICV	1	8.13	8.05	8.21
		CS160314A	ICV	2	8.54	8.46	8.62
		CS160314A	ICV	3	9.15	9.07	9.23
		CS160314A	ICV	4	9.38	9.30	9.46
		CS160314A	ICV	5	9.56	9.48	9.64
Aroclor 1221	GC21B-1358-67	CS210314A	ICV	1	5.32	5.24	5.40
		CS210314A	ICV	2	6.47	6.39	6.55
		CS210314A	ICV	3	6.94	6.86	7.02
		CS210314A	ICV	4	7.15	7.07	7.23
		CS210314A	ICV	5	7.27	7.19	7.35
Aroclor 1232	GC21B-1358-68	CS320314A	ICV	1	7.27	7.19	7.35
		CS320314A	ICV	2	8.53	8.45	8.61
		CS320314A	ICV	3	9.14	9.06	9.22
		CS320314A	ICV	4	9.37	9.29	9.45
		CS320314A	ICV	5	9.55	9.47	9.63
Aroclor 1242	GC21B-1358-69	CS420314A	ICV	1	8.13	8.05	8.21
		CS420314A	ICV	2	8.54	8.46	8.62
		CS420314A	ICV	3	9.15	9.07	9.23
		CS420314A	ICV	4	9.38	9.30	9.46
		CS420314A	ICV	5	9.56	9.48	9.64
Aroclor 1246	GC21B-1358-70	CS480314A	ICV	1	10.07	9.99	10.15
		CS460314A	ICV	2	10.81	10.73	10.89
		CS480314A	ICV	3	11.42	11.34	11.50
		CS480314A	ICV	4	11.62	11.54	11.70
		CS480314A	ICV	5	12.09	12.01	12.17
Aroclor 1254	GC21B-1358-71	CS540314A	ICV	1	12.28	12.20	12.36
		CS540314A	ICV	2	13.05	12.97	13.13
		CS540314A	ICV	3	13.34	13.26	13.42
		CS540314A	ICV	4	14.82	14.74	14.90
		CS540314A	ICV	5	15.69	15.61	15.77
Aroclor 1260	GC21B-1358-72	CS600314A	ICV	1	15.68	15.60	15.76
		CS600314A	ICV	2	17.95	17.87	18.03
		CS600314A	ICV	3	19.14	19.06	19.22
		CS600314A	ICV	4	19.78	19.70	19.86
		CS600314A	ICV	5	22.41	22.33	22.49
Aroclor 1262	GC21B-1358-73	CS620314A	ICV	1	15.69	15.61	15.77
		CS620314A	ICV	2	17.96	17.88	18.04
		CS620314A	ICV	3	19.14	19.06	19.22

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zabron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030200

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS820314A	ICV	4	19.78	19.70	19.86
		CS620314A	ICV	5	22.41	22.33	22.49
Aroclor 1268	GC21B-1358-74	CS680314A	ICV	1	19.77	19.69	19.85
		CS680314A	ICV	2	22.41	22.33	22.49
		CS680314A	ICV	3	19.53	19.45	19.61
		CS680314A	ICV	4	21.20	21.12	21.28
		CS680314A	ICV	5	21.64	21.56	21.72

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC21B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11030200

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1232	GC21B-1371-3	CS320329A	CCV	1	7.27	7.19	7.35
		CS320329A	CCV	2	8.54	8.45	8.61
		CS320329A	CCV	3	9.15	9.06	9.22
		CS320329A	CCV	4	9.37	9.29	9.45
		CS320329A	CCV	5	9.55	9.47	9.63
Aroclor 1242	GC21B-1371-11	CS420329A	CCV	1	8.13	8.05	8.21
		CS420329A	CCV	2	8.54	8.46	8.62
		CS420329A	CCV	3	9.15	9.07	9.23
		CS420329A	CCV	4	9.38	9.30	9.46
		CS420329A	CCV	5	9.56	9.48	9.64

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

QC SAMPLE RAW DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030200</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>PBLK-79</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>10.189 g</u>	Lab Sample ID: <u>AO03093B</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC21F-1438-5</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>03/28/2011</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>03/29/2011</u>
Method: <u>SW-846 8062 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030200</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>PBLK-79</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>10.189 g</u>	Lab Sample ID: <u>AO03093B</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC21B-1371-5</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>03/28/2011</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>03/29/2011</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030200</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>LCS-79</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>10.402 g</u>	Lab Sample ID:	<u>AO03093L</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC21F-1438-6</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>03/28/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 um</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.09	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11030200</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>LCS-79</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>10.402 g</u>	Lab Sample ID:	<u>AO03093L</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC218-1371-6</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>03/28/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>03/29/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION	Q
		UG/G	
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.13	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030200</u>
ELAP ID No: <u>11078</u>	Client ID: <u>LCS-79(LAB CONTROL SPIKE)</u>
LRF Sample ID: <u>LCS-79</u>	Lab Sample ID: <u>AO03093L</u>
Instrument 1 ID: <u>GC21F</u>	Instrument 2 ID: <u>GC21B</u>
Date Analyzed: <u>03/29/2011 2:39:30 PM</u>	Date Analyzed: <u>03/29/2011 2:39:34 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21F-1438-6</u>	Lab File ID 2: <u>GC21B-1371-6</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.54	7.46	7.62			
		2	7.92	7.84	8.00			
		3	8.53	8.46	8.62			
		4	8.74	8.67	8.83			
		5	8.88	8.80	8.96			
	2	1	8.13	8.05	8.21			
		2	8.54	8.46	8.62			
		3	9.15	9.07	9.23			
		4	9.38	9.30	9.46			
		5	9.56	9.48	9.64			
Aroclor 1221	1	1	NA	4.45	4.61			
		2	NA	5.69	5.85			
		3	NA	6.25	6.41			
		4	NA	6.44	6.60			
		5	NA	6.56	6.72			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.86	7.02			
		4	NA	7.07	7.23			
		5	NA	7.19	7.35			
Aroclor 1232	1	1	NA	6.56	6.72			
		2	7.92	7.83	7.99			
		3	8.53	8.45	8.61			
		4	8.74	8.66	8.82			
		5	8.88	8.80	8.96			
	2	1	NA	7.19	7.35			
		2	8.54	8.45	8.61			
		3	9.15	9.06	9.22			
		4	9.38	9.29	9.45			
		5	9.56	9.47	9.63			
Aroclor 1242	1	1	7.54	7.46	7.62			
		2	7.92	7.84	8.00			
		3	8.53	8.46	8.62			
		4	8.74	8.67	8.83			
		5	8.88	8.80	8.96	1.09		
	2	1	8.13	8.05	8.21			
		2	8.54	8.46	8.62			
		3	9.15	9.07	9.23			
		4	9.38	9.30	9.46			
		5	9.56	9.48	9.64	1.13	3.60	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 3/31/2011
Lims Version : 5.0.5.5

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11030200</u>
ELAP ID No: <u>11078</u>	Client ID: <u>LCS-79(LAB CONTROL SPIKE)</u>
LRF Sample ID: <u>LCS-79</u>	Lab Sample ID: <u>AO03093L</u>
Instrument 1 ID: <u>GC21F</u>	Instrument 2 ID: <u>GC21B</u>
Date Analyzed: <u>03/29/2011 2:39:30 PM</u>	Date Analyzed: <u>03/29/2011 2:39:34 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC21F-1438-6</u>	Lab File ID 2: <u>GC21B-1371-6</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.37	9.53			
		2	NA	10.02	10.18			
		3	NA	10.65	10.81			
		4	NA	10.81	10.97			
		5	NA	11.21	11.37			
	2	1	NA	9.99	10.15			
		2	NA	10.73	10.89			
		3	NA	11.34	11.50			
		4	NA	11.54	11.70			
		5	NA	12.01	12.17			
Aroclor 1254	1	1	NA	11.52	11.68			
		2	NA	12.17	12.33			
		3	NA	12.45	12.61			
		4	NA	13.91	14.07			
		5	NA	14.73	14.89			
	2	1	NA	12.20	12.36			
		2	NA	12.97	13.13			
		3	NA	13.26	13.42			
		4	NA	14.74	14.90			
		5	NA	15.61	15.77			
Aroclor 1260	1	1	NA	14.73	14.89			
		2	NA	16.94	17.10			
		3	NA	17.80	17.96			
		4	NA	18.54	18.70			
		5	NA	20.66	20.82			
	2	1	NA	15.60	15.76			
		2	NA	17.87	18.03			
		3	NA	19.06	19.22			
		4	NA	19.70	19.86			
		5	NA	22.33	22.49			

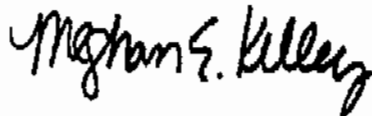
June 3, 2011

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 11C0809

Enclosed are results of analyses for samples received by the laboratory on March 25, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: David Sullivan

REPORT DATE: 6/3/2011

PURCHASE ORDER NUMBER: 32046

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11C0809

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
NW-ROW-1 (0-1)	11C0809-01	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-1 (1-3)	11C0809-02	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-1 (5-7)	11C0809-03	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-1 (9-10.5)	11C0809-04	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-2 (0-1)	11C0809-06	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-2 (1-3)	11C0809-07	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-2 (5-7)	11C0809-08	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-2 (7.5-8)	11C0809-09	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-3 (0-1)	11C0809-10	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-3 (1-3)	11C0809-11	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	



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TRC Solutions - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: David Sullivan

REPORT DATE: 6/3/2011

PURCHASE ORDER NUMBER: 32046

PROJECT NUMBER: 113058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11C0809

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
NW-ROW-3 (5-7)	11C0809-12	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-3 (8.5-10)	11C0809-13	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-4 (0-1)	11C0809-15	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-4 (1-3)	11C0809-16	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-4 (5-7)	11C0809-17	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
NW-ROW-4 (8-10)	11C0809-18	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-26 (0-1)	11C0809-20	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-26 (1-3)	11C0809-21	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-26 (5-7)	11C0809-22	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-26 (11-12)	11C0809-23	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	



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TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 6/3/2011

PURCHASE ORDER NUMBER: 32046

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WDRK ORDER NUMBER: 11C0809

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-NM-27 (0-1)	11C0809-24	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-27 (1-3)	11C0809-25	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-27 (5-7)	11C0809-26	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-27 (13-14.5)	11C0809-27	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-28 (0-1)	11C0809-29	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-28 (1-3)	11C0809-30	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-28 (5-7)	11C0809-31	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-28 (12-14)	11C0809-32	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-29 (0-1)	11C0809-34	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-29 (1-3)	11C0809-35	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	



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TRC Solutions - Lowell
 650 Suffolk Street
 Lowell, MA 01852
 ATTN: David Sullivan

REPORT DATE: 6/3/2011

PURCHASE ORDER NUMBER: 32046

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11C0809

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-NM-29 (5-7)	11C0809-36	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
SB-NM-29 (13-14)	11C0809-37	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
RG-ROW-1 (0-1)	11C0809-39	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
RG-ROW-1 (1-3)	11C0809-40	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
RG-ROW-1 (5-7)	11C0809-41	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
RG-ROW-1 (9-10.5)	11C0809-42	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
Dup-1	11C0809-44	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	
Dup-2	11C0809-45	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8270C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 06/03/2011 - Results for Pyrene included per clients request.

For method 6010, the beryllium hits on samples 11C0809-17 and 35 were confirmed by method 6020.

For method 6010, sample 11C0809-17 was reprepared due to the Se matrix spike and matrix spike duplicate recoveries being <30%. The reprepared sample also had matrix spike and matrix spike duplicate recoveries <30%. Both results are reported.

For method 8270, only PAH compounds were requested and reported.

SW-846 6010C

Qualifications:

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Selenium, Silver, Thallium

11C0809-03[NW-ROW-1 (5-7)], 11C0809-07[NW-ROW-2 (1-3)], 11C0809-08[NW-ROW-2 (5-7)], 11C0809-17[NW-ROW-4 (5-7)], 11C0809-22[SB-NM-26 (5-7)],
11C0809-45[Dup-2], B027967-DUP1, 11C0809-35[SB-NM-29 (1-3)], 11C0809-44[Dup-1]

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Arsenic

B027967-BSD1

Result is serial dilution as per MA CAM/CT RCP regulation.

Analyte & Samples(s) Qualified:

B027967-DUP2

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Selenium

B027967-MSD1

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

11C0809-17RE1[NW-ROW-4 (5-7)], B028203-MS1, B028203-MSD1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Selenium, Silver, Thallium

11C0809-17[NW-ROW-4 (5-7)], 11C0809-17RE1[NW-ROW-4 (5-7)], B027967-MS1, B028203-MS1, B028203-MSD1

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Barium, Chromium, Lead, Vanadium, Zinc

11C0809-17[NW-ROW-4 (5-7)], B027967-MS1, B027967-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Arsenic, Nickel

11C0809-17[NW-ROW-4 (5-7)], B027967-MS1

Matrix spike and matrix spike duplicate recoveries are <30%. Post spike is reported.

Analyte & Sample(s) Qualified:

Selenium

11C0809-17[NW-ROW-4 (5-7)], B027967-MS1, B027967-MSD1

Matrix spike recovery is <30%. Post spike recovery is reported.

Analyte & Sample(s) Qualified:

Selenium

11C0809-17RE1[NW-ROW-4 (5-7)], B028203-MS1, B028203-MSD1

The serial dilution RPD is outside control limits. Increased variability for reported result cannot be eliminated.

Analyte & Sample(s) Qualified:

Zinc

B027967-DUP2

SW-846 7471B

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Sample(s) Qualified:

Mercury

11C0809-17[NW-ROW-4 (5-7)], 11C0809-45[Dup-2], B027932-MS1, B027933-MS1, B027933-MSD1

SW-846 8270C

Qualifications:

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Sample(s) Qualified:

Pyrene

11C0809-24[SB-NM-27 (0-1)], B028092-MS1, B028092-MSD1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Sample(s) Qualified:

Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene
11C0809-17[NW-ROW-4 (5-7)], B028091-MS1, B028091-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Sample(s) Qualified:

Indeno(1,2,3-cd)pyrene

B028092-MS1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Sample(s) Qualified:

Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Pyrene

B028092-BLK1, B028092-BS1, B028092-BSD1, 11C0809-24[SB-NM-27 (0-1)], 11C0809-26[SB-NM-27 (5-7)], 11C0809-31[SB-NM-28 (5-7)], 11C0809-35[SB-NM-29 (1-3)], B028092-MS1, B028092-MSO1, 11C0809-35RE1[SB-NM-29 (1-3)]



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Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Sample(s) Qualified:

Benzo(g,h,i)perylene, Pyrene

11C0809-27[SB-NM-27 (13-14.5)], 11C0809-32[SB-NM-28 (12-14)]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Daren J. Damberagian". The signature is fluid and cursive, with a large initial "D" and "J".

Daren J. Damberagian
Laboratory Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (0-1)

Sampled: 3/24/2011 14:00

Sample ID: 11C0809-39

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Acenaphthylene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Anthracene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Benzo(a)anthracene	1.5	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Benzo(a)pyrene	1.5	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Benzo(b)fluoranthene	1.8	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Benzo(g,h,i)perylene	0.80	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Benzo(k)fluoranthene	0.63	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Chrysene	1.6	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Dibenz(a,h)anthracene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Fluoranthene	1.5	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Fluorene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Indeno(1,2,3-cd)pyrene	0.88	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
2-Methylnaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Naphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Phenanthrene	1.3	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Pyrene	2.1	0.44	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 19:02	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		49.0	30-130					4/5/11 19:02	
2-Fluorobiphenyl		47.3	30-130					4/5/11 19:02	
Terphenyl-d14		49.3	30-130					4/5/11 19:02	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (0-1)

Sampled: 3/24/2011 14:00

Sample ID: 11C0809-39

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.2	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Arsenic	11	3.2	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Barium	610	3.2	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Cadmium	2.2	0.32	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Chromium	33	0.64	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Lead	740	0.96	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Mercury	0.90	0.065	mg/Kg dry	2		SW-846 7471B	3/28/11	3/28/11 15:25	CWB
Nickel	19	0.64	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Vanadium	30	1.3	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP
Zinc	510	1.3	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:51	OP



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (0-1)

Sampled: 3/24/2011 14:00

Sample ID: 11C0809-39

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APIIA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
% Solids	76.5		% Wt	1		SM 2540G	3/28/11	3/29/11 9:43	VAF

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (1-3)

Sampled: 3/24/2011 14:05

Sample ID: 11C0809-40

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Acenaphthylene	ND	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Anthracene	1.7	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Benzo(a)anthracene	3.9	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Benzo(a)pyrene	4.1	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Benzo(b)fluoranthene	5.1	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Benzo(g,h,i)perylene	2.5	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Benzo(k)fluoranthene	1.9	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Chrysene	4.2	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Dibenz(a,h)anthracene	ND	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Fluoranthene	5.2	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Fluorene	0.89	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Indeno(1,2,3-cd)pyrene	2.3	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
2-Methylnaphthalene	ND	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Naphthalene	ND	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Phenanthrene	6.8	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Pyrene	5.3	0.77	mg/Kg dry	2		SW-846 8270C	3/30/11	4/5/11 19:34	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		38.5	30-130					4/5/11 19:34	
2-Fluorobiphenyl		43.7	30-130					4/5/11 19:34	
Terphenyl-d14		34.9	30-130					4/5/11 19:34	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-I (1-3)

Sampled: 3/24/2011 14:05

Sample ID: 11C0809-40

Sample Matrix: Soil

Metals Analysis (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Arsenic	15	2.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Barium	750	2.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Beryllium	ND	0.29	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Cadmium	3.5	0.29	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Chromium	52	0.57	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Lead	1000	0.86	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Mercury	0.53	0.054	mg/Kg dry	2		SW-846 7471B	3/28/11	3/28/11 15:26	CWB
Nickel	31	0.57	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Vanadium	49	1.1	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP
Zinc	1100	1.1	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 15:55	OP



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (1-3)

Sampled: 3/24/2011 14:05

Sample ID: 11C0809-40

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	3/28/11	3/29/11 9:43	VAP

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (5-7)

Sampled: 3/24/2011 14:10

Sample ID: 11C0809-41

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Acenaphthylene	ND	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Anthracene	1.1	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Benzo(a)anthracene	4.6	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Benzo(a)pyrene	5.1	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Benzo(b)fluoranthene	6.5	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Benzo(g,h,i)perylene	2.0	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Benzo(k)fluoranthene	2.6	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Chrysene	4.8	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Dibenz(a,h)anthracene	0.66	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Fluoranthene	5.8	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Fluorene	0.48	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Indeno(1,2,3-cd)pyrene	2.5	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
2-Methylnaphthalene	ND	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Naphthalene	ND	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Phenanthrene	4.8	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Pyrene	5.7	0.47	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:06	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	54.6	30-130	4/5/11 20:06						
2-Fluorobiphenyl	50.7	30-130	4/5/11 20:06						
Terphenyl-d14	36.1	30-130	4/5/11 20:06						



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (5-7)

Sampled: 3/24/2011 14:10

Sample ID: 11C0809-41

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.5	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Arsenic	13	3.5	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Barium	290	3.5	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Beryllium	ND	0.35	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Cadmium	1.4	0.35	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Chromium	32	0.69	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Lead	470	1.0	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Mercury	3.2	0.33	mg/Kg dry	10		SW-846 7471B	3/28/11	3/28/11 15:28	CWB
Nickel	23	0.69	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Selenium	ND	6.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Silver	ND	0.69	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Thallium	ND	3.5	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Vanadium	36	1.4	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP
Zinc	320	1.4	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:00	OP



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (5-7)

Sampled: 3/24/2011 14:10

Sample ID: 11C0809-41

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APIIA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.9		% Wt	1		SM 2540G	3/28/11	3/29/11 9:43	VAF

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROW-1 (9-10.5)

Sampled: 3/24/2011 14:15

Sample ID: 11C0809-42

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Acenaphthylene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Anthracene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Benzo(a)anthracene	ND	1.3	ng/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Benzo(a)pyrene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Benzo(b)fluoranthene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Benzo(g,h,i)perylene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Benzo(k)fluoranthene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Chrysene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Di(1,2,3,4)anthracene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Fluoranthene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Fluorene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Indeno(1,2,3-cd)pyrene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
2-Methylnaphthalene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Naphthalene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Phenanthrene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Pyrene	ND	1.3	mg/Kg dry	1		SW-846 8270C	3/30/11	4/5/11 20:38	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	63.0	30-130							
2-Fluorobiphenyl	54.4	30-130							
Terphenyl-d14	42.8	30-130							



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RG-ROY-1 (9-10.5)

Sampled: 3/24/2011 14:15

Sample ID: 11C0809-42

Sample Matrix: Soil

Metals Analyzes (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	9.3	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Arsenic	ND	9.3	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Barium	95	9.3	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Beryllium	ND	0.93	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Cadmium	ND	0.93	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Chromium	7.0	1.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Lead	6.0	2.8	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Mercury	0.11	0.092	mg/Kg dry	1		SW-846 7471B	3/28/11	3/28/11 13:59	CWB
Nickel	2.8	1.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Selenium	ND	19	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Silver	ND	1.9	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Thallium	ND	9.3	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Vanadium	13	3.7	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP
Zinc	13	3.7	mg/Kg dry	1		SW-846 6010C	3/29/11	3/30/11 16:05	OP



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11C0809

Date Received: 3/25/2011

Field Sample #: RC-ROW-1 (9-10.5)

Sampled: 3/24/2011 14:15

Sample ID: 11C0809-42

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	27.0		% Wt	1		SM 2540G	3/28/11	3/29/11 9:43	VAF

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11C0809-01 [NW-ROW-1 (0-1)]	B027952	03/28/11
11C0809-02 [NW-ROW-1 (1-3)]	B027952	03/28/11
11C0809-03 [NW-ROW-1 (5-7)]	B027952	03/28/11
11C0809-04 [NW-ROW-1 (9-10.5)]	B027952	03/28/11
11C0809-06 [NW-ROW-2 (0-1)]	B027952	03/28/11
11C0809-07 [NW-ROW-2 (1-3)]	B027952	03/28/11
11C0809-08 [NW-ROW-2 (5-7)]	B027952	03/28/11
11C0809-09 [NW-ROW-2 (7.5-8)]	B027952	03/28/11
11C0809-10 [NW-ROW-3 (0-1)]	B027952	03/28/11
11C0809-11 [NW-ROW-3 (1-3)]	B027952	03/28/11
11C0809-12 [NW-ROW-3 (5-7)]	B027952	03/28/11
11C0809-13 [NW-ROW-3 (8.5-10)]	B027952	03/28/11
11C0809-15 [NW-ROW-4 (0-1)]	B027952	03/28/11
11C0809-16 [NW-ROW-4 (1-3)]	B027952	03/28/11
11C0809-17 [NW-ROW-4 (5-7)]	B027952	03/28/11
11C0809-18 [NW-ROW-4 (8-10)]	B027952	03/28/11
11C0809-20 [SB-NM-26 (0-1)]	B027952	03/28/11
11C0809-21 [SB-NM-26 (1-3)]	B027952	03/28/11
11C0809-22 [SB-NM-26 (5-7)]	B027952	03/28/11
11C0809-23 [SB-NM-26 (11-12)]	B027952	03/28/11
11C0809-24 [SB-NM-27 (0-1)]	B027952	03/28/11
11C0809-25 [SB-NM-27 (1-3)]	B027952	03/28/11
11C0809-26 [SB-NM-27 (5-7)]	B027952	03/28/11
11C0809-27 [SB-NM-27 (13-14.5)]	B027952	03/28/11
11C0809-29 [SB-NM-28 (0-1)]	B027952	03/28/11
11C0809-30 [SB-NM-28 (1-3)]	B027952	03/28/11
11C0809-31 [SB-NM-28 (5-7)]	B027952	03/28/11
11C0809-32 [SB-NM-28 (12-14)]	B027952	03/28/11
11C0809-34 [SB-NM-29 (0-1)]	B027952	03/28/11
11C0809-35 [SB-NM-29 (1-3)]	B027952	03/28/11
11C0809-36 [SB-NM-29 (5-7)]	B027952	03/28/11
11C0809-37 [SB-NM-29 (13-14)]	B027952	03/28/11
11C0809-39 [RG-ROW-1 (0-1)]	B027952	03/28/11
11C0809-40 [RG-ROW-1 (1-3)]	B027952	03/28/11
11C0809-41 [RG-ROW-1 (5-7)]	B027952	03/28/11
11C0809-42 [RG-ROW-1 (9-10.5)]	B027952	03/28/11
11C0809-44 [Dup-1]	B027952	03/28/11
11C0809-45 [Dup-2]	B027952	03/28/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-01 [NW-ROW-1 (0-1)]	B027936	1.01	50.0	03/28/11
11C0809-02 [NW-ROW-1 (1-3)]	B027936	1.00	50.0	03/28/11
11C0809-03 [NW-ROW-1 (5-7)]	B027936	0.987	50.0	03/28/11
11C0809-04 [NW-ROW-1 (9-10.5)]	B027936	1.02	50.0	03/28/11
11C0809-06 [NW-ROW-2 (0-1)]	B027936	1.02	50.0	03/28/11
11C0809-07 [NW-ROW-2 (1-3)]	B027936	0.990	50.0	03/28/11
11C0809-08 [NW-ROW-2 (5-7)]	B027936	1.04	50.0	03/28/11
11C0809-09 [NW-ROW-2 (7.5-8)]	B027936	1.02	50.0	03/28/11

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-10 [NW-ROW-3 (0-1)]	B027967	1.02	50.0	03/28/11
11C0809-11 [NW-ROW-3 (1-3)]	B027967	1.03	50.0	03/28/11
11C0809-12 [NW-ROW-3 (5-7)]	B027967	0.990	50.0	03/28/11
11C0809-13 [NW-ROW-3 (8.5-10)]	B027967	0.996	50.0	03/28/11
11C0809-15 [NW-ROW-4 (0-1)]	B027967	1.03	50.0	03/28/11
11C0809-16 [NW-ROW-4 (1-3)]	B027967	1.01	50.0	03/28/11
11C0809-17 [NW-ROW-4 (5-7)]	B027967	1.01	50.0	03/28/11
11C0809-18 [NW-ROW-4 (8-10)]	B027967	1.01	50.0	03/28/11
11C0809-20 [SB-NM-26 (0-1)]	B027967	0.985	50.0	03/28/11
11C0809-21 [SB-NM-26 (1-3)]	B027967	0.999	50.0	03/28/11
11C0809-22 [SB-NM-26 (5-7)]	B027967	0.996	50.0	03/28/11
11C0809-23 [SB-NM-26 (11-12)]	B027967	1.01	50.0	03/28/11
11C0809-24 [SB-NM-27 (0-1)]	B027967	0.982	50.0	03/28/11
11C0809-25 [SB-NM-27 (1-3)]	B027967	1.01	50.0	03/28/11
11C0809-26 [SB-NM-27 (5-7)]	B027967	0.978	50.0	03/28/11
11C0809-27 [SB-NM-27 (13-14.5)]	B027967	1.03	50.0	03/28/11
11C0809-29 [SB-NM-28 (0-1)]	B027967	1.01	50.0	03/28/11
11C0809-30 [SB-NM-28 (1-3)]	B027967	1.05	50.0	03/28/11
11C0809-31 [SB-NM-28 (5-7)]	B027967	0.980	50.0	03/28/11
11C0809-32 [SB-NM-28 (12-14)]	B027967	1.01	50.0	03/28/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-34 [SB-NM-29 (0-1)]	B028023	1.00	50.0	03/29/11
11C0809-35 [SB-NM-29 (1-3)]	B028023	0.993	50.0	03/29/11
11C0809-36 [SB-NM-29 (5-7)]	B028023	0.986	50.0	03/29/11
11C0809-37 [SB-NM-29 (13-14)]	B028023	1.00	50.0	03/29/11
11C0809-39 [RG-ROW-1 (0-1)]	B028023	1.02	50.0	03/29/11
11C0809-40 [RG-ROW-1 (1-3)]	B028023	0.991	50.0	03/29/11
11C0809-41 [RG-ROW-1 (5-7)]	B028023	1.00	50.0	03/29/11
11C0809-42 [RG-ROW-1 (9-10.5)]	B028023	0.992	50.0	03/29/11
11C0809-44 [Dup-1]	B028023	0.996	50.0	03/29/11
11C0809-45 [Dup-2]	B028023	1.01	50.0	03/29/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-17RE1 [NW-ROW-4 (5-7)]	B028203	0.992	50.0	03/31/11

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-22 [SB-NM-26 (5-7)]	B027932	0.607	50.0	03/28/11
11C0809-23 [SB-NM-26 (11-12)]	B027932	0.604	50.0	03/28/11
11C0809-24 [SB-NM-27 (0-1)]	B027932	0.607	50.0	03/28/11
11C0809-25 [SB-NM-27 (1-3)]	B027932	0.603	50.0	03/28/11
11C0809-26 [SB-NM-27 (5-7)]	B027932	0.618	50.0	03/28/11
11C0809-27 [SB-NM-27 (13-14.5)]	B027932	0.637	50.0	03/28/11
11C0809-29 [SB-NM-28 (0-1)]	B027932	0.612	50.0	03/28/11
11C0809-30 [SB-NM-28 (1-3)]	B027932	0.623	50.0	03/28/11



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-31 [SB-NM-28 (5-7)]	B027932	0.630	50.0	03/28/11
11C0809-32 [SB-NM-28 (12-14)]	B027932	0.612	50.0	03/28/11
11C0809-34 [SB-NM-29 (0-1)]	B027932	0.634	50.0	03/28/11
11C0809-35 [SB-NM-29 (1-3)]	B027932	0.610	50.0	03/28/11
11C0809-36 [SB-NM-29 (5-7)]	B027932	0.612	50.0	03/28/11
11C0809-37 [SB-NM-29 (13-14)]	B027932	0.603	50.0	03/28/11
11C0809-39 [RG-ROW-1 (0-1)]	B027932	0.603	50.0	03/28/11
11C0809-40 [RG-ROW-1 (1-3)]	B027932	0.631	50.0	03/28/11
11C0809-41 [RG-ROW-1 (5-7)]	B027932	0.635	50.0	03/28/11
11C0809-42 [RG-ROW-1 (9-10.5)]	B027932	0.602	50.0	03/28/11
11C0809-44 [Dup-1]	B027932	0.612	50.0	03/28/11
11C0809-45 [Dup-2]	B027932	0.605	50.0	03/28/11

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-01 [NW-ROW-1 (0-1)]	B027933	0.610	50.0	03/28/11
11C0809-02 [NW-ROW-1 (1-3)]	B027933	0.621	50.0	03/28/11
11C0809-03 [NW-ROW-1 (5-7)]	B027933	0.608	50.0	03/28/11
11C0809-04 [NW-ROW-1 (9-10.5)]	B027933	0.600	50.0	03/28/11
11C0809-06 [NW-ROW-2 (0-1)]	B027933	0.610	50.0	03/28/11
11C0809-07 [NW-ROW-2 (1-3)]	B027933	0.624	50.0	03/28/11
11C0809-08 [NW-ROW-2 (5-7)]	B027933	0.617	50.0	03/28/11
11C0809-09 [NW-ROW-2 (7.5-8)]	B027933	0.614	50.0	03/28/11
11C0809-10 [NW-ROW-3 (0-1)]	B027933	0.613	50.0	03/28/11
11C0809-11 [NW-ROW-3 (1-3)]	B027933	0.640	50.0	03/28/11
11C0809-12 [NW-ROW-3 (5-7)]	B027933	0.623	50.0	03/28/11
11C0809-13 [NW-ROW-3 (8.5-10)]	B027933	0.600	50.0	03/28/11
11C0809-15 [NW-ROW-4 (0-1)]	B027933	0.600	50.0	03/28/11
11C0809-16 [NW-ROW-4 (1-3)]	B027933	0.617	50.0	03/28/11
11C0809-17 [NW-ROW-4 (5-7)]	B027933	0.622	50.0	03/28/11
11C0809-18 [NW-ROW-4 (8-10)]	B027933	0.604	50.0	03/28/11
11C0809-20 [SB-NM-26 (0-1)]	B027933	0.631	50.0	03/28/11
11C0809-21 [SB-NM-26 (1-3)]	B027933	0.611	50.0	03/28/11

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-01 [NW-ROW-1 (0-1)]	B028091	30.2	1.00	03/30/11
11C0809-02 [NW-ROW-1 (1-3)]	B028091	30.1	2.00	03/30/11
11C0809-03 [NW-ROW-1 (5-7)]	B028091	30.1	1.00	03/30/11
11C0809-04 [NW-ROW-1 (9-10.5)]	B028091	30.0	1.00	03/30/11
11C0809-06 [NW-ROW-2 (0-1)]	B028091	30.3	2.00	03/30/11
11C0809-07 [NW-ROW-2 (1-3)]	B028091	30.1	2.00	03/30/11
11C0809-08 [NW-ROW-2 (5-7)]	B028091	30.0	1.00	03/30/11
11C0809-09 [NW-ROW-2 (7.5-8)]	B028091	30.1	1.00	03/30/11
11C0809-10 [NW-ROW-3 (0-1)]	B028091	30.3	2.00	03/30/11
11C0809-11 [NW-ROW-3 (1-3)]	B028091	30.2	1.00	03/30/11
11C0809-12 [NW-ROW-3 (5-7)]	B028091	30.3	2.00	03/30/11
11C0809-12RE1 [NW-ROW-3 (5-7)]	B028091	30.3	2.00	03/30/11
11C0809-13 [NW-ROW-3 (8.5-10)]	B028091	30.2	1.00	03/30/11
11C0809-15 [NW-ROW-4 (0-1)]	B028091	30.0	1.00	03/30/11
11C0809-15RE1 [NW-ROW-4 (0-1)]	B028091	30.0	1.00	03/30/11

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-16 [NW-ROW-4 (1-3)]	B028091	30.1	2.00	03/30/11
11C0809-17 [NW-ROW-4 (5-7)]	B028091	30.3	2.00	03/30/11
11C0809-18 [NW-ROW-4 (8-10)]	B028091	30.1	1.00	03/30/11
11C0809-20 [SB-NM-26 (0-1)]	B028091	30.0	1.00	03/30/11
11C0809-21 [SB-NM-26 (1-3)]	B028091	30.2	2.00	03/30/11
11C0809-22 [SB-NM-26 (5-7)]	B028091	30.2	2.00	03/30/11
11C0809-22RE1 [SB-NM-26 (5-7)]	B028091	30.2	2.00	03/30/11
11C0809-23 [SB-NM-26 (11-12)]	B028091	15.0	1.00	03/30/11

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11C0809-24 [SB-NM-27 (0-1)]	B028092	30.4	2.00	03/30/11
11C0809-25 [SB-NM-27 (1-3)]	B028092	30.0	2.00	03/30/11
11C0809-26 [SB-NM-27 (5-7)]	B028092	30.0	2.00	03/30/11
11C0809-27 [SB-NM-27 (13-14.5)]	B028092	30.0	1.00	03/30/11
11C0809-29 [SB-NM-28 (0-1)]	B028092	30.2	2.00	03/30/11
11C0809-30 [SB-NM-28 (1-3)]	B028092	30.1	2.00	03/30/11
11C0809-31 [SB-NM-28 (5-7)]	B028092	30.0	2.00	03/30/11
11C0809-31RE1 [SB-NM-28 (5-7)]	B028092	30.0	2.00	03/30/11
11C0809-32 [SB-NM-28 (12-14)]	B028092	30.0	1.00	03/30/11
11C0809-34 [SB-NM-29 (0-1)]	B028092	30.1	2.00	03/30/11
11C0809-35 [SB-NM-29 (1-3)]	B028092	30.0	2.00	03/30/11
11C0809-35RE1 [SB-NM-29 (1-3)]	B028092	30.0	2.00	03/30/11
11C0809-36 [SB-NM-29 (5-7)]	B028092	30.0	2.00	03/30/11
11C0809-37 [SB-NM-29 (13-14)]	B028092	30.0	2.00	03/30/11
11C0809-39 [RG-ROW-1 (0-1)]	B028092	30.2	2.00	03/30/11
11C0809-40 [RG-ROW-1 (1-3)]	B028092	30.0	2.00	03/30/11
11C0809-41 [RG-ROW-1 (5-7)]	B028092	15.0	1.00	03/30/11
11C0809-42 [RG-ROW-1 (9-10.5)]	B028092	15.0	1.00	03/30/11
11C0809-44 [Dup-1]	B028092	30.1	1.00	03/30/11
11C0809-45 [Dup-2]	B028092	30.1	2.00	03/30/11

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028091 - SW-846 3546										
Blank (B028091-BLK1) Prepared: 03/30/11 Analyzed: 04/01/11										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.80		mg/Kg wet	3.33		84.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.33		76.9	30-130			
Surrogate: Terphenyl-d14	2.79		mg/Kg wet	3.33		83.7	30-130			
LCS (B028091-BS1) Prepared: 03/30/11 Analyzed: 04/01/11										
Acenaphthene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140			
Acenaphthylene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Anthracene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140			
Benzo(a)anthracene	1.56	0.17	mg/Kg wet	1.67		93.5	40-140			
Benzo(a)pyrene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140			
Benzo(g,h,i)perylene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.67		94.6	40-140			
Chrysene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140			
Dibenz(a,h)anthracene	1.62	0.17	mg/Kg wet	1.67		96.9	40-140			
Fluoranthene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140			
Fluorene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140			
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.6	40-140			
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Naphthalene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Surrogate: Nitrobenzene-d5	2.85		mg/Kg wet	3.33		85.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.33		77.0	30-130			
Surrogate: Terphenyl-d14	2.72		mg/Kg wet	3.33		81.6	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028091 - SW-846 3546										
LCS Dup (B028091-BSD1) Prepared: 03/30/11 Analyzed: 04/01/11										
Acenaphthene	1.46	0.17	mg/Kg wet	1.67		87.6	40-140	3.93	30	
Acenaphthylene	1.46	0.17	mg/Kg wet	1.67		87.5	40-140	2.95	30	
Anthracene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	2.00	30	
Benzo(a)anthracene	1.56	0.17	mg/Kg wet	1.67		93.9	40-140	0.384	30	
Benzo(a)pyrene	1.62	0.17	mg/Kg wet	1.67		97.0	40-140	3.06	30	
Benzo(b)fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.5	40-140	2.63	30	
Benzo(g,h,i)perylene	1.79	0.17	mg/Kg wet	1.67		107	40-140	2.21	30	
Benzo(k)fluoranthene	1.70	0.17	mg/Kg wet	1.67		102	40-140	7.82	30	
Chrysene	1.57	0.17	mg/Kg wet	1.67		94.4	40-140	2.29	30	
Dibenz(a,h)anthracene	1.64	0.17	mg/Kg wet	1.67		98.7	40-140	1.76	30	
Fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.3	40-140	3.79	30	
Fluorene	1.61	0.17	mg/Kg wet	1.67		96.5	40-140	3.07	30	
Indeno(1,2,3-cd)pyrene	1.64	0.17	mg/Kg wet	1.67		98.1	40-140	1.54	30	
2-Methylnaphthalene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	1.52	30	
Naphthalene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140	0.451	30	
Phenanthrene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140	2.79	30	
Pyrene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140	4.18	30	
Surrogate: Nitrobenzene-d5	2.74		mg/Kg wet	3.33		82.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		78.1	30-130			
Surrogate: Terphenyl-d14	2.69		mg/Kg wet	3.33		80.8	30-130			
Matrix Spike (B028091-MS1) Source: 11C0809-17 Prepared: 03/30/11 Analyzed: 04/04/11										
Acenaphthene	2.51	1.8	mg/Kg dry	2.26	1.66	37.7 *	40-140			MS-09
Acenaphthylene	1.35	1.8	mg/Kg dry	2.26	ND	59.7	40-140			
Anthracene	4.04	1.8	mg/Kg dry	2.26	7.72	-163 *	40-140			MS-09
Benzo(a)anthracene	6.60	1.8	mg/Kg dry	2.26	11.6	-219 *	40-140			MS-09
Benzo(a)pyrene	5.48	1.8	mg/Kg dry	2.26	8.90	-151 *	40-140			MS-09
Benzo(b)fluoranthene	6.74	1.8	mg/Kg dry	2.26	10.3	-158 *	40-140			MS-09
Benzo(g,h,i)perylene	3.22	1.8	mg/Kg dry	2.26	4.65	-63.1 *	40-140			MS-09
Benzo(k)fluoranthene	3.36	1.8	mg/Kg dry	2.26	4.41	-46.4 *	40-140			MS-09
Chrysene	6.65	1.8	mg/Kg dry	2.26	11.0	-194 *	40-140			MS-09
Dibenz(a,h)anthracene	2.01	1.8	mg/Kg dry	2.26	1.56	19.6 *	40-140			MS-09
Fluoranthene	10.7	1.8	mg/Kg dry	2.26	24.5	-610 *	40-140			MS-09
Fluorene	2.79	1.8	mg/Kg dry	2.26	2.79	-0.0491 *	40-140			MS-09
Indeno(1,2,3-cd)pyrene	4.31	1.8	mg/Kg dry	2.26	5.70	-61.5 *	40-140			MS-09
2-Methylnaphthalene	1.43	1.8	mg/Kg dry	2.26	ND	63.4	40-140			
Naphthalene	2.12	1.8	mg/Kg dry	2.26	0.804	58.3	40-140			
Phenanthrene	11.3	1.8	mg/Kg dry	2.26	24.0	-561 *	40-140			MS-09
Pyrene	9.00	1.8	mg/Kg dry	2.26	19.4	-461 *	40-140			MS-09
Surrogate: Nitrobenzene-d5	2.36		mg/Kg dry	4.53		52.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg dry	4.53		55.8	30-130			
Surrogate: Terphenyl-d14	1.89		mg/Kg dry	4.53		41.8	30-130			



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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028091 - SW-846 3546										
Matrix Spike Dup (B028091-MSD1)										
Source: 11C0809-17 Prepared: 03/30/11 Analyzed: 04/04/11										
Acenaphthene	2.55	1.8	mg/Kg dry	2.26	1.66	39.6	40-140	1.72	30	MS-09
Acenaphthylene	1.24	1.8	mg/Kg dry	2.26	ND	54.9	40-140	8.38	30	
Anthracene	4.44	1.8	mg/Kg dry	2.26	7.72	-145	40-140	9.48	30	MS-09
Benzo(a)anthracene	7.05	1.8	mg/Kg dry	2.26	11.6	-199	40-140	6.69	30	MS-09
Benzo(a)pyrene	5.98	1.8	mg/Kg dry	2.26	8.90	-129	40-140	8.72	30	MS-09
Benzo(b)fluoranthene	7.32	1.8	mg/Kg dry	2.26	10.3	-132	40-140	8.30	30	MS-09
Benzo(g,h,i)perylene	3.48	1.8	mg/Kg dry	2.26	4.65	-51.5	40-140	7.79	30	MS-09
Benzo(k)fluoranthene	3.50	1.8	mg/Kg dry	2.26	4.41	-40.3	40-140	4.01	30	MS-09
Chrysene	7.05	1.8	mg/Kg dry	2.26	11.0	-176	40-140	5.87	30	MS-09
Dibenz(a,h)anthracene	2.06	1.8	mg/Kg dry	2.26	1.56	21.8	40-140	2.50	30	MS-09
Fluoranthene	11.9	1.8	mg/Kg dry	2.26	24.5	-555	40-140	11.0	30	MS-09
Fluorene	3.47	1.8	mg/Kg dry	2.26	2.79	30.2	40-140	21.9	30	MS-09
Indeno(1,2,3-cd)pyrene	4.99	1.8	mg/Kg dry	2.26	5.70	-31.4	40-140	14.6	30	MS-09
2-Methylnaphthalene	1.41	1.8	mg/Kg dry	2.26	ND	62.1	40-140	2.04	30	
Naphthalene	2.04	1.8	mg/Kg dry	2.26	0.804	54.8	40-140	3.83	30	
Phenanthrene	13.2	1.8	mg/Kg dry	2.26	24.0	-477	40-140	15.6	30	MS-09
Pyrene	10.3	1.8	mg/Kg dry	2.26	19.4	-402	40-140	13.8	30	MS-09
Surrogate: Nitrobenzene-d5	1.94		mg/Kg dry	4.53		42.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.02		mg/Kg dry	4.53		44.6	30-130			
Surrogate: Terphenyl-d14	1.68		mg/Kg dry	4.53		37.1	30-130			

Batch B028092 - SW-846 3546

Blank (B028092-BLK1)										
Prepared: 03/30/11 Analyzed: 04/02/11										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-06
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	1.97		mg/Kg wet	3.33		59.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.02		mg/Kg wet	3.33		60.7	30-130			
Surrogate: Terphenyl-d14	2.22		mg/Kg wet	3.33		66.7	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
Batch B028092 - SW-846 3546										
LCS (B028092-BS1) Prepared: 03/30/11 Analyzed: 04/02/11										
Acenaphthene	1.56	0.17	mg/Kg wet	1.67		93.8	40-140			
Acenaphthylene	1.53	0.17	mg/Kg wet	1.67		91.8	40-140			
Anthracene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(a)anthracene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Benzo(a)pyrene	1.64	0.17	mg/Kg wet	1.67		98.5	40-140			
Benzo(b)fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.2	40-140			V-06
Benzo(g,h,i)perylene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140			
Benzo(k)fluoranthene	1.59	0.17	mg/Kg wet	1.67		95.6	40-140			
Chrysene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140			
Dibenz(a,h)anthracene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140			
Fluoranthene	1.89	0.17	mg/Kg wet	1.67		113	40-140			
Fluorene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Indeno(1,2,3-cd)pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
2-Methylnaphthalene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140			
Naphthalene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140			
Phenanthrene	1.64	0.17	mg/Kg wet	1.67		98.5	40-140			
Pyrene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Surrogate: Nitrobenzene-d5	3.06		mg/Kg wet	3.33		91.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.06		mg/Kg wet	3.33		91.8	30-130			
Surrogate: Terphenyl-d14	3.30		mg/Kg wet	3.33		105	30-130			
LCS Dup (B028092-BS1) Prepared: 03/30/11 Analyzed: 04/02/11										
Acenaphthene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	0.171	30	
Acenaphthylene	1.54	0.17	mg/Kg wet	1.67		92.4	40-140	0.695	30	
Anthracene	1.73	0.17	mg/Kg wet	1.67		104	40-140	1.41	30	
Benzo(a)anthracene	1.66	0.17	mg/Kg wet	1.67		99.9	40-140	0.200	30	
Benzo(a)pyrene	1.63	0.17	mg/Kg wet	1.67		97.8	40-140	0.652	30	
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140	1.08	30	V-06
Benzo(g,h,i)perylene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140	2.08	30	
Benzo(k)fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.2	40-140	1.66	30	
Chrysene	1.61	0.17	mg/Kg wet	1.67		96.5	40-140	2.31	30	
Dibenz(a,h)anthracene	1.51	0.17	mg/Kg wet	1.67		90.9	40-140	5.69	30	
Fluoranthene	2.03	0.17	mg/Kg wet	1.67		122	40-140	7.52	30	
Fluorene	1.65	0.17	mg/Kg wet	1.67		98.8	40-140	1.41	30	
Indeno(1,2,3-cd)pyrene	1.65	0.17	mg/Kg wet	1.67		99.2	40-140	2.76	30	
2-Methylnaphthalene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	3.47	30	
Naphthalene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140	0.584	30	
Phenanthrene	1.64	0.17	mg/Kg wet	1.67		98.5	40-140	0.0406	30	
Pyrene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140	12.3	30	
Surrogate: Nitrobenzene-d5	3.02		mg/Kg wet	3.33		90.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.21		mg/Kg wet	3.33		96.2	30-130			
Surrogate: Terphenyl-d14	3.17		mg/Kg wet	3.33		95.2	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028092 - SW-846 3546										
Matrix Spike (B028092-MS1)										
Source: 11C0809-24 Prepared: 03/30/11 Analyzed: 04/04/11										
Acenaphthene	1.47	0.40	mg/Kg dry	1.94	ND	75.6	40-140			
Acenaphthylene	1.40	0.40	mg/Kg dry	1.94	ND	72.3	40-140			
Anthracene	1.83	0.40	mg/Kg dry	1.94	0.527	67.0	40-140			
Benzo(a)anthracene	2.89	0.40	mg/Kg dry	1.94	1.92	50.3	40-140			
Benzo(a)pyrene	2.81	0.40	mg/Kg dry	1.94	1.86	48.8	40-140			
Benzo(b)fluoranthene	3.53	0.40	mg/Kg dry	1.94	2.38	59.3	40-140			
Benzo(g,h,i)perylene	1.79	0.40	mg/Kg dry	1.94	0.927	44.5	40-140			
Benzo(k)fluoranthene	2.26	0.40	mg/Kg dry	1.94	0.914	69.6	40-140			
Chrysene	2.87	0.40	mg/Kg dry	1.94	1.97	46.4	40-140			
Dibenz(a,h)anthracene	1.38	0.40	mg/Kg dry	1.94	0.402	50.5	40-140			
Fluoranthene	4.00	0.40	mg/Kg dry	1.94	2.89	57.5	40-140			
Fluorene	1.47	0.40	mg/Kg dry	1.94	ND	75.8	40-140			
Indeno(1,2,3-cd)pyrene	2.03	0.40	mg/Kg dry	1.94	1.31	37.4	40-140			MS-22, V-06
2-Methylnaphthalene	1.36	0.40	mg/Kg dry	1.94	ND	70.0	40-140			
Naphthalene	1.32	0.40	mg/Kg dry	1.94	ND	68.1	40-140			
Phenanthrene	3.06	0.40	mg/Kg dry	1.94	2.13	47.8	40-140			
Pyrene	2.82	0.40	mg/Kg dry	1.94	2.87	-2.50	40-140			MS-07A
Surrogate: Nitrobenzene-d5	2.48		mg/Kg dry	3.88		63.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.55		mg/Kg dry	3.88		65.7	30-130			
Surrogate: Terphenyl-d14	1.99		mg/Kg dry	3.88		51.3	30-130			
Matrix Spike Dup (B028092-MSD1)										
Source: 11C0809-24 Prepared: 03/30/11 Analyzed: 04/04/11										
Acenaphthene	1.46	0.40	mg/Kg dry	1.94	ND	75.6	40-140	0.0530	30	
Acenaphthylene	1.40	0.40	mg/Kg dry	1.94	ND	72.1	40-140	0.277	30	
Anthracene	1.81	0.40	mg/Kg dry	1.94	0.527	66.4	40-140	0.597	30	
Benzo(a)anthracene	2.90	0.40	mg/Kg dry	1.94	1.92	50.8	40-140	0.321	30	
Benzo(a)pyrene	2.81	0.40	mg/Kg dry	1.94	1.86	49.0	40-140	0.138	30	
Benzo(b)fluoranthene	3.53	0.40	mg/Kg dry	1.94	2.38	59.5	40-140	0.0879	30	
Benzo(g,h,i)perylene	1.83	0.40	mg/Kg dry	1.94	0.927	46.4	40-140	2.10	30	
Benzo(k)fluoranthene	2.42	0.40	mg/Kg dry	1.94	0.914	77.6	40-140	6.39	30	
Chrysene	2.85	0.40	mg/Kg dry	1.94	1.97	45.3	40-140	0.733	30	
Dibenz(a,h)anthracene	1.41	0.40	mg/Kg dry	1.94	0.402	52.1	40-140	2.11	30	
Fluoranthene	4.10	0.40	mg/Kg dry	1.94	2.89	62.6	40-140	2.47	30	
Fluorene	1.34	0.40	mg/Kg dry	1.94	ND	69.3	40-140	8.93	30	
Indeno(1,2,3-cd)pyrene	2.43	0.40	mg/Kg dry	1.94	1.31	57.9	40-140	17.8	30	V-06
2-Methylnaphthalene	1.33	0.40	mg/Kg dry	1.94	ND	68.4	40-140	2.31	30	
Naphthalene	1.33	0.40	mg/Kg dry	1.94	ND	68.6	40-140	0.702	30	
Phenanthrene	3.04	0.40	mg/Kg dry	1.94	2.13	46.8	40-140	0.662	30	
Pyrene	3.15	0.40	mg/Kg dry	1.94	2.87	14.6	40-140	11.1	30	MS-07A
Surrogate: Nitrobenzene-d5	2.59		mg/Kg dry	3.88		66.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.96		mg/Kg dry	3.88		76.4	30-130			
Surrogate: Terphenyl-d14	2.19		mg/Kg dry	3.88		56.4	30-130			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B027932 - SW-846 7471										
Blank (B027932-BLK1) Prepared & Analyzed: 03/28/11										
Mercury	ND	0.025	mg/Kg wet							
LCS (B027932-BS1) Prepared & Analyzed: 03/28/11										
Mercury	1.38	0.092	mg/Kg wet	1.25		110	66-132			
LCS Dup (B027932-BSD1) Prepared & Analyzed: 03/28/11										
Mercury	1.18	0.093	mg/Kg wet	1.25		94.6	66-132	15.4	30	
Duplicate (B027932-DUP1) Source: 11C0809-45 Prepared & Analyzed: 03/28/11										
Mercury	2.71	0.32	mg/Kg dry		3.00			10.1	35	
Matrix Spike (B027932-MS1) Source: 11C0809-45 Prepared & Analyzed: 03/28/11										
Mercury	3.86	0.32	mg/Kg dry	0.211	3.00	405 *	75-125			MS-19
Batch B027933 - SW-846 7471										
Blank (B027933-BLK1) Prepared & Analyzed: 03/28/11										
Mercury	ND	0.025	mg/Kg wet							
LCS (B027933-BS1) Prepared & Analyzed: 03/28/11										
Mercury	1.21	0.091	mg/Kg wet	1.25		97.0	66-132			
LCS Dup (B027933-BSD1) Prepared & Analyzed: 03/28/11										
Mercury	1.13	0.089	mg/Kg wet	1.25		90.8	66-132	6.64	30	
Duplicate (B027933-DUP1) Source: 11C0809-17 Prepared & Analyzed: 03/28/11										
Mercury	1.02	0.16	mg/Kg dry		1.05			2.47	35	
Matrix Spike (B027933-MS1) Source: 11C0809-17 Prepared & Analyzed: 03/28/11										
Mercury	1.33	0.16	mg/Kg dry	0.218	1.05	130 *	75-125			MS-19
Matrix Spike Dup (B027933-MSD1) Source: 11C0809-17 Prepared & Analyzed: 03/28/11										
Mercury	1.33	0.16	mg/Kg dry	0.218	1.05	127 *	75-125	0.432	35	MS-19
Batch B027936 - SW-846 3050B										
Blank (B027936-BLK1) Prepared: 03/28/11 Analyzed: 03/29/11										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B027936 - SW-846 3050B										
LCS (B027936-BS1) Prepared: 03/28/11 Analyzed: 03/29/11										
Antimony	87.2	5.0	mg/Kg wet	121		72.1	30-219			
Arsenic	92.2	5.0	mg/Kg wet	109		84.6	83.2-117.4			
Barium	292	5.0	mg/Kg wet	325		90.0	83.1-116.9			
Beryllium	86.8	0.50	mg/Kg wet	92.1		94.3	83.7-116.2			
Cadmium	110	0.50	mg/Kg wet	110		99.6	80.7-119.1			
Chromium	87.4	1.0	mg/Kg wet	93.4		93.6	80.6-119.9			
Lead	147	1.5	mg/Kg wet	152		96.6	78.9-121.1			
Nickel	111	1.0	mg/Kg wet	109		102	81.2-118.3			
Selenium	196	10	mg/Kg wet	207		94.7	79.2-120.3			
Silver	43.9	1.0	mg/Kg wet	51.9		84.6	66.3-133.7			
Thallium	152	5.0	mg/Kg wet	171		88.7	77.8-121.6			
Vanadium	106	2.0	mg/Kg wet	110		96.6	76.8-123.6			
Zinc	276	2.0	mg/Kg wet	299		92.2	81.9-117.7			
LCS (B027936-BS2) Prepared: 03/28/11 Analyzed: 03/29/11										
Lead	0.644	0.76	mg/Kg wet	0.757		85.2	80-120			
LCS Dup (B027936-BS1) Prepared: 03/28/11 Analyzed: 03/29/11										
Antimony	81.7	5.0	mg/Kg wet	121		67.5	30-219	6.49	30	
Arsenic	98.4	5.0	mg/Kg wet	109		90.3	83.2-117.4	6.50	30	
Barium	310	5.0	mg/Kg wet	325		95.4	83.1-116.9	5.83	30	
Beryllium	90.3	0.50	mg/Kg wet	92.1		98.1	83.7-116.2	3.93	30	
Cadmium	112	0.50	mg/Kg wet	110		102	80.7-119.1	2.02	30	
Chromium	89.2	0.99	mg/Kg wet	93.4		95.5	80.6-119.9	2.05	30	
Lead	152	1.5	mg/Kg wet	152		99.8	78.9-121.1	3.24	30	
Nickel	109	0.99	mg/Kg wet	109		100	81.2-118.3	1.69	30	
Selenium	208	9.9	mg/Kg wet	207		100	79.2-120.3	5.70	30	
Silver	45.8	0.99	mg/Kg wet	51.9		88.3	66.3-133.7	4.20	30	
Thallium	162	5.0	mg/Kg wet	171		94.5	77.8-121.6	6.31	30	
Vanadium	110	2.0	mg/Kg wet	110		100	76.8-123.6	3.56	30	
Zinc	287	2.0	mg/Kg wet	299		95.9	81.9-117.7	3.97	30	
Batch B027967 - SW-846 3050B										
Blank (B027967-BLK1) Prepared: 03/28/11 Analyzed: 03/30/11										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	NO	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

QUALITY CONTROL

Metals Analyzes (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch B027967 - SW-846 3050B									
LCS (B027967-BS1) Prepared: 03/28/11 Analyzed: 03/30/11									
Antimony	79.9	4.9	mg/Kg wet	121		66.1 30-219			
Arsenic	93.7	4.9	mg/Kg wet	109		86.0 83.2-117.4			
Barium	294	4.9	mg/Kg wet	325		90.5 83.1-116.9			
Beryllium	84.6	0.49	mg/Kg wet	92.1		91.9 83.7-116.2			
Cadmium	106	0.49	mg/Kg wet	110		96.1 80.7-119.1			
Chromium	82.7	0.98	mg/Kg wet	93.4		88.5 80.6-119.9			
Lead	141	1.5	mg/Kg wet	152		92.6 78.9-121.1			
Nickel	102	0.98	mg/Kg wet	109		93.4 81.2-118.3			
Selenium	191	9.8	mg/Kg wet	207		92.4 79.2-120.3			
Silver	42.4	0.98	mg/Kg wet	51.9		81.6 66.3-133.7			
Thallium	153	4.9	mg/Kg wet	171		89.4 77.8-121.6			
Vanadium	102	2.0	mg/Kg wet	110		93.0 76.8-123.6			
Zinc	264	2.0	mg/Kg wet	299		88.4 81.9-117.7			
LCS (B027967-BS2) Prepared: 03/28/11 Analyzed: 03/30/11									
Lead	0.757	0.74	mg/Kg wet	0.744		102 80-120			
LCS Dup (B027967-BSD1) Prepared: 03/28/11 Analyzed: 03/30/11									
Antimony	74.0	4.9	mg/Kg wet	121		61.1 30-219 7.75 30			
Arsenic	89.7	4.9	mg/Kg wet	109		82.3 * 83.2-117.4 4.43 30			L-07
Barium	286	4.9	mg/Kg wet	325		88.0 83.1-116.9 2.72 30			
Beryllium	84.0	0.49	mg/Kg wet	92.1		91.2 83.7-116.2 0.757 30			
Cadmium	109	0.49	mg/Kg wet	110		98.7 80.7-119.1 2.73 30			
Chromium	82.2	0.97	mg/Kg wet	93.4		88.0 80.6-119.9 0.520 30			
Lead	133	1.5	mg/Kg wet	152		87.5 78.9-121.1 5.58 30			
Nickel	100	0.97	mg/Kg wet	109		92.1 81.2-118.3 1.44 30			
Selenium	184	9.7	mg/Kg wet	207		88.9 79.2-120.3 3.76 30			
Silver	41.3	0.97	mg/Kg wet	51.9		79.5 66.3-133.7 2.60 30			
Thallium	148	4.9	mg/Kg wet	171		86.3 77.8-121.6 3.57 30			
Vanadium	102	1.9	mg/Kg wet	110		92.4 76.8-123.6 0.754 30			
Zinc	261	1.9	mg/Kg wet	299		87.3 81.9-117.7 1.25 30			
Duplicate (B027967-DUP1) Source: 11C0809-17 Prepared: 03/28/11 Analyzed: 03/30/11									
Arsenic	12.7	3.4	mg/Kg dry		15.4		19.5	35	
Barium	1960	3.4	mg/Kg dry		2020		3.21	35	
Beryllium	ND	0.34	mg/Kg dry		0.453		NC	35	
Cadmium	5.93	0.34	mg/Kg dry		7.09		17.8	35	
Chromium	364	0.68	mg/Kg dry		367		1.02	35	
Lead	1910	1.0	mg/Kg dry		2030		6.23	35	
Nickel	90.0	0.68	mg/Kg dry		56.6		12.4	35	
Selenium	ND	68	mg/Kg dry		ND		NC	35	DL-04
Vanadium	188	1.4	mg/Kg dry		209		10.9	35	
Zinc	905	1.4	mg/Kg dry		881		2.70	35	



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B027967 - SW-846 3050B										
Duplicate (B027967-DUP2)										
		Source: 11C0809-17			Prepared: 03/28/11		Analyzed: 03/30/11		M-07	
Barium	2170	17	mg/Kg dry		2020			6.96	10	
Chromium	381	3.4	mg/Kg dry		367			3.56	10	
Lead	2110	5.1	mg/Kg dry		2030			3.72	10	
Nickel	54.2	3.4	mg/Kg dry		56.6			4.25	10	
Vanadium	193	6.7	mg/Kg dry		209			7.88	10	
Zinc	1020	6.7	mg/Kg dry		881			14.9 *	10	Z-01b
Matrix Spike (B027967-MSI)										
		Source: 11C0809-17			Prepared: 03/28/11		Analyzed: 03/30/11			
Arsenic	38.3	3.4	mg/Kg dry	34.1	15.4	67.0	* 75-125			MS-22
Barium	1980	3.4	mg/Kg dry	34.1	2020	-119	* 75-125			MS-19
Beryllium	30.8	0.34	mg/Kg dry	34.1	0.453	88.9	75-125			
Cadmium	37.5	0.34	mg/Kg dry	34.1	7.09	89.2	75-125			
Chromium	402	0.68	mg/Kg dry	34.1	367	101	75-125			
Lead	1930	1.0	mg/Kg dry	34.1	2030	-305	* 75-125			MS-19
Nickel	75.9	0.68	mg/Kg dry	34.1	56.6	56.7	* 75-125			MS-22
Selenium	ND	68	mg/Kg dry	34.1	ND		* 75-125			MS-09, Z-01
Vanadium	250	1.4	mg/Kg dry	34.1	209	120	75-125			
Zinc	847	1.4	mg/Kg dry	34.1	881	-97.2	* 75-125			MS-19
Matrix Spike Dup (B027967-MSD1)										
		Source: 11C0809-17			Prepared: 03/28/11		Analyzed: 03/30/11			
Arsenic	41.7	3.3	mg/Kg dry	33.4	15.4	78.7	75-125	8.50	35	
Barium	2270	3.3	mg/Kg dry	33.4	2020	749	* 75-125	13.7	35	MS-19
Beryllium	29.8	0.33	mg/Kg dry	33.4	0.453	88.0	75-125	3.23	35	
Cadmium	36.5	0.33	mg/Kg dry	33.4	7.09	88.0	75-125	2.88	35	
Chromium	330	0.67	mg/Kg dry	33.4	367	-112	* 75-125	19.6	35	MS-19
Lead	2540	1.0	mg/Kg dry	33.4	2030	1510	* 75-125	27.2	35	MS-19
Nickel	81.6	0.67	mg/Kg dry	33.4	56.6	75.0	75-125	7.25	35	
Selenium	ND	67	mg/Kg dry	33.4	ND		* 75-125		35	MS-07, Z-01
Vanadium	224	1.3	mg/Kg dry	33.4	209	43.2	* 75-125	11.2	35	MS-19
Zinc	1070	1.3	mg/Kg dry	33.4	881	571	* 75-125	23.3	35	MS-19
Post Spike (B027967-PS1)										
		Source: 11C0809-17			Prepared: 03/28/11		Analyzed: 03/30/11			
Selenium	1.20		mg/L	2.00	-0.687	94.1	85-115			

Batch B028023 - SW-846 3050B

Blank (B028023-BLK1)										
Prepared & Analyzed: 03/29/11										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

QUALITY CONTROL

Metals Analyzes (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028023 - SW-846 3050B										
LCS (B028023-BS1) Prepared & Analyzed: 03/29/11										
Antimony	78.1	5.1	mg/Kg wet	121		64.6	30-219			
Arsenic	94.7	5.1	mg/Kg wet	109		86.9	83.2-117.4			
Barium	303	5.1	mg/Kg wet	325		93.4	83.1-116.9			
Beryllium	87.6	0.51	mg/Kg wet	92.1		95.1	83.7-116.2			
Cadmium	106	0.51	mg/Kg wet	110		96.2	80.7-119.1			
Chromium	86.1	1.0	mg/Kg wet	93.4		92.2	80.6-119.9			
Lead	142	1.5	mg/Kg wet	152		93.3	78.9-121.1			
Nickel	104	1.0	mg/Kg wet	109		95.3	81.2-118.3			
Selenium	194	10	mg/Kg wet	207		93.6	79.2-120.3			
Silver	45.3	1.0	mg/Kg wet	51.9		87.3	66.3-133.7			
Thallium	154	5.1	mg/Kg wet	171		90.3	77.8-121.6			
Vanadium	105	2.0	mg/Kg wet	110		95.4	76.8-123.6			
Zinc	273	2.0	mg/Kg wet	299		91.2	81.9-117.7			
LCS (B028023-BS2) Prepared & Analyzed: 03/29/11										
Lead	0.721	0.77	mg/Kg wet	0.766		94.1	80-120			
LCS Dup (B028023-BSD1) Prepared & Analyzed: 03/29/11										
Antimony	76.3	5.0	mg/Kg wet	121		63.1	30-219	2.37	30	
Arsenic	93.5	5.0	mg/Kg wet	109		85.8	83.2-117.4	1.22	30	
Barium	299	5.0	mg/Kg wet	325		91.9	83.1-116.9	1.62	30	
Beryllium	86.5	0.50	mg/Kg wet	92.1		93.9	83.7-116.2	1.24	30	
Cadmium	107	0.50	mg/Kg wet	110		97.1	80.7-119.1	0.856	30	
Chromium	87.4	1.0	mg/Kg wet	93.4		93.6	80.6-119.9	1.42	30	
Lead	144	1.5	mg/Kg wet	152		94.9	78.9-121.1	1.67	30	
Nickel	103	1.0	mg/Kg wet	109		94.9	81.2-118.3	0.436	30	
Selenium	193	10	mg/Kg wet	207		93.2	79.2-120.3	0.490	30	
Silver	45.7	1.0	mg/Kg wet	51.9		88.1	66.3-133.7	0.913	30	
Thallium	154	5.0	mg/Kg wet	171		90.3	77.8-121.6	0.0177	30	
Vanadium	104	2.0	mg/Kg wet	110		94.8	76.8-123.6	0.638	30	
Zinc	270	2.0	mg/Kg wet	299		90.2	81.9-117.7	1.10	30	
Batch B028203 - SW-846 3050B										
Blank (B028203-BLK1) Prepared: 03/31/11 Analyzed: 04/01/11										
Antimony	ND	2.5	mg/Kg wet							
Selenium	NO	5.0	mg/Kg wet							
Silver	NO	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
LCS (B028203-BS1) Prepared: 03/31/11 Analyzed: 04/01/11										
Antimony	99.0	5.0	mg/Kg wet	121		81.8	30-219			
Selenium	190	10	mg/Kg wet	207		91.6	79.2-120.3			
Silver	43.5	1.0	mg/Kg wet	51.9		83.9	66.3-133.7			
Thallium	151	5.0	mg/Kg wet	171		88.2	77.8-121.6			



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028203 - SW-846 3050B										
LCS Dup (B028203-BSD1)										
				Prepared: 03/31/11 Analyzed: 04/01/11						
Antimony	106	5.0	mg/Kg wet	121		87.3	30-219	6.43	30	
Selenium	203	10	mg/Kg wet	207		98.1	79.2-120.3	6.84	30	
Silver	47.2	1.0	mg/Kg wet	51.9		91.0	66.3-133.7	8.19	30	
Thallium	167	5.0	mg/Kg wet	171		97.6	77.8-121.6	10.1	30	
Duplicate (B028203-DUP1)										
				Source: 11C0809-17RE1 Prepared: 03/31/11 Analyzed: 04/01/11						
Antimony	ND	3.4	mg/Kg dry		ND			NC	35	
Selenium	ND	6.8	mg/Kg dry		ND			NC	35	
Silver	ND	0.68	mg/Kg dry		ND			NC	35	
Thallium	ND	3.4	mg/Kg dry		ND			NC	35	
Matrix Spike (B028203-MS1)										
				Source: 11C0809-17RE1 Prepared: 03/31/11 Analyzed: 04/01/11						
Antimony	19.3	3.3	mg/Kg dry	33.2	ND	58.0	* 75-125			MS-07A
Selenium	2.69	6.6	mg/Kg dry	33.2	ND	8.12	* 75-125			MS-09, Z-01a
Silver	23.1	0.66	mg/Kg dry	33.2	ND	69.7	* 75-125			MS-09
Thallium	13.9	3.3	mg/Kg dry	33.2	ND	41.8	* 75-125			MS-09
Matrix Spike Dup (B028203-MSD1)										
				Source: 11C0809-17RE1 Prepared: 03/31/11 Analyzed: 04/01/11						
Antimony	23.3	3.4	mg/Kg dry	33.8	ND	68.9	* 75-125	18.9	35	MS-07A
Selenium	ND	6.8	mg/Kg dry	33.8	ND		* 75-125		35	MS-09, Z-01a
Silver	24.5	0.68	mg/Kg dry	33.8	ND	72.6	* 75-125	5.84	35	MS-09
Thallium	13.9	3.4	mg/Kg dry	33.8	ND	41.2	* 75-125	0.234	35	MS-09
Post Spike (B028203-PS1)										
				Source: 11C0809-17RE1 Prepared: 03/31/11 Analyzed: 04/01/11						
Selenium	1.36		mg/L	2.00	-0.340	85.2	85-115			



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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APIA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B027952 - % Solids										
Duplicate (B027952-DUPD)										
		Source: 11C0809-01			Prepared: 03/28/11		Analyzed: 03/29/11			
% Solids	88.9		% Wt		89.0			0.112	20	
Duplicate (B027952-DUPE)										
		Source: 11C0809-17			Prepared: 03/28/11		Analyzed: 03/29/11			
% Solids	72.1		% Wt		73.6			2.06	20	
Duplicate (B027952-DUPE)										
		Source: 11C0809-29			Prepared: 03/28/11		Analyzed: 03/29/11			
% Solids	75.3		% Wt		78.8			4.54	20	
Duplicate (B027952-DUPG)										
		Source: 11C0809-40			Prepared: 03/28/11		Analyzed: 03/29/11			
% Solids	80.1		% Wt		88.0			9.40	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
M-07	Result is serial dilution as per MA CAM/ CT RCP regulation.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Matrix spike and matrix spike duplicate recoveries are <30%. Post spike is reported.
Z-01a	Matrix spike recovery is <30%. Post spike recovery is reported.
Z-01b	The serial dilution RPD is outside control limits. Increased variability for reported result cannot be eliminated.

CERTIFICATIONS

Certified Analyses Included in this Report

Analyte	Certifications
<i>SW-846 6010C in Soil</i>	
Antimony	CT,NH,NY
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Beryllium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Nickel	CT,NH,NY
Selenium	CT,NH,NY
Silver	CT,NH,NY
Thallium	CT,NH,NY
Vanadium	CT,NH,NY
Zinc	CT,NH,NY
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY
<i>SW-846 8270C in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
Naphthalene	CT,NY,NH
Phenanthrene	CT,NY,NH
Pyrene	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012



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11C0809

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

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Company Name: TRC
 Address: 650 Suffolk St
 Lowell, MA 01854
 Attention: Dave Sullivan
 Project Location: New Bedford
 Sampled By: Zack Richards
 Project Proposal Provided? (for billing purposes)
 yes no
 Telephone: 978-470-5600
 Project # 115058
 Client PO# 32046
 DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Email: dsullivan@hazsluhem.com
 Format: PDF EXCEL GIS
 OTHER
 Enhanced Data Package*

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Kent Code	Loc Code
01	NM-ROW-1 (0-1)	3/24/11	0900			S	
02	NM-ROW-1 (1-3)		0905				
03	NM-ROW-1 (5-7)		0915				
04	NM-ROW-1 (9-10,5)		0930				
05	NM-ROW-1 (10,5-12)		0935				
06	NM-ROW-2 (0-1)		0940				
07	NM-ROW-2 (1-3)		0945				
08	NM-ROW-2 (5-7)		0950				
09	NM-ROW-2 (7.5-8)		0955				
10	NM-ROW-3 (0-1)		1000				

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *Sam* Date/Time: 3/25/11 13:25
 Turnaround 7-Day 10-Day Other 5 day
 Rush! 24-Hr 48-Hr 72-Hr 14-Day
 Require lab approval
 Detection Limit Requirements
 Massachusetts: _____
 Connecticut: _____
 Other: _____

ANALYSIS REQUESTED
 MCP Metals + Hg
 PAH's (8276)
 HCLD

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required PWSID # _____
 NELAC & AIHA Certified
 WBEIDBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS
 COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.
 PLEASE BE CAREFUL NOT TO CONTAMINATE THE SAMPLE

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

11C0809

Company Name: TRC
 Address: 650 Suffolk St Lowell, MA 01854
 Attention: Dave Sullivan
 Project Location: New Bedford
 Sampled By: Zack Richards

Telephone: 978-970-5600
 Project #: 115058
 Client PO#: 32046
 DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Project Proposal Provided? (for billing purposes)
 Yes No
 proposal date _____
 Email: d.sullivan@resolutions.com
 Format: PDF EXCEL GIS
 OTHER _____
 "Enhanced Data Package"

Con-Test Lab ID <small>(Laboratory Use Only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix	Disc Date
	NM-ROW-3 (1-3)	3/24/11	1005	X	X	S	
	NM-ROW-3 (5-7)		1010	X	X		
	NM-ROW-3 (8.5-10)		1015	X	X		
	NM-ROW-3 (10-12)		1020	X	X		
	NM-ROW-4 (0-1)		1025	X	X		
	NM-ROW-4 (1-3)		1030	X	X		
	NM-ROW-4 (5-7)		1035	X	X		
	NM-ROW-4 (8-10)		1040	X	X		
	NM-ROW-4 (10-12)		1045	X	X		
	SR-NM-26 (0-1)		1130	X	X		

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

# of Containers	**Preserved	**Containment Code
I	I	A
I	I	A

ANALYSIS REQUESTED

MCP Metals + Hg
 PAHs (8270)

Page 2
 Page 144 of 149

Relinquished by: (signature) [Signature] Date/Time: 3/25/11 13:25

Relinquished by: (signature) [Signature] Date/Time: 3/25/11 13:25

Relinquished by: (signature) [Signature] Date/Time: 3/25/11 13:25

Received by: (signature) [Signature] Date/Time: 3/25/11 13:25

Turnaround 7-Day 10-Day Other 5 day RUSH!

72-Hr 14-Day Require lab approval

Detection Limit Requirements
 Massachusetts: _____
 Connecticut: _____
 Other: _____

Is your project MCP or RCP?

- MCP Analytical Certification Form Required
- RCP Analysis Certification Form Required
- MA State DW Form Required PWSID # _____

NEIAC & AIHA Certified
 WB/DBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE RE-CAREFULLY NOT TO CONTAMINATE THIS DOCUMENT.

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

1100809

Company Name: TRC
Address: 650 Suffolk St
Lowell, MA 01854
Attention: Dave Sullivan
Project Location: New Bedford
Sampled By: Zack Richards
Telephone: 978-970-5600
Project #: 115058
Client PO#: 32046
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Email: dsullivan@trcsolutions.com
Format: PDF EXCEL GIS
 OTHER

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix		MCP Metals + Hg	PAHs (8270)
		Beginning Date/Time	Ending Date/Time			Date	Lot		
S8-NM-26 (1-3)		3/24/11	1135				S	X	X
S8-NM-26 (5-7)			1140					X	X
S8-NM-26 (11-12)			1145					X	X
S8-NM-27 (0-1)			1200					X	X
S8-NM-27 (1-3)			1205					X	X
S8-NM-27 (5-7)			1210					X	X
S8-NM-27 (13-14.5)			1215					X	X
S8-NM-27 (14.5-16)			1220					X	X
S8-NM-28 (0-1)			1225					X	X
S8-NM-28 (1-3)			1230					X	X

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *James L. Evans* Date/Time: 3/25/11 13:25
Received by: (signature) *Dave Sullivan* Date/Time: 3/25/11 13:21
Relinquished by: (signature) *John Mallo* Date/Time: 3/25/11 18:50
Received by: (signature) *John Mallo* Date/Time: 3/25/11 18:50

Turnaround 7-Day 10-Day Other *5 Day*
 24-Hr 148-Hr
 72-Hr 14-Day
RUSH!
Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required PWSID # _____
NELAC & ALPHA Certified
WBED/BE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE PRECISE AND CLEAR IN ALL INFORMATION.

**Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/soil
SL = sludge
O = other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=redlar bag
O=Other

Dissolved Metals
 Field Filtered
 Lab to Filter





ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

11C0809

Company Name: TRC

Telephone: 938-970-5600

Address: 650 Suffolk St

Project # 115058

Lowell, MA 01854

Client PO# 32046

Attention: Dave Sullivan

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Project Location: New Bedford

Fax #

Sampled By: Zach Richards

Email: dsullivan@christolabs.com

Project Proposal Provided? (for billing purposes)

yes proposal date

Format:

PDF EXCEL GIS
 OTHER

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Hatch Code	*Low Data	ANALYSIS REQUESTED
		Beginning Date/Time	Ending Date/Time					
SB-NM-28 (5-7)		3/24/11	1235			S		MCP Metals + Hg PAH's (8270)
SB-NM-28 (12-14)			1240					
SB-NM-28 (14-16)			1245					
SB-NM-29 (0-1)			1300					
SB-NM-29 (1-3)			1305					
SB-NM-29 (5-7)			1310					
SB-NM-29 (13-14)			1315					
SB-NM-29 (14-16)			1320					
RG-ROW-1 (0-1)			1400					
RG-ROW-1 (1-3)			1405					

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature) [Signature] Date/Time: 3/25/11 13:25

Relinquished by (signature) [Signature] Date/Time: 3/25/11 13:21

Relinquished by (signature) [Signature] Date/Time: 3/25/11 13:20

Received by (signature) [Signature] Date/Time: 3/25/11 13:20

Turnaround 7-Day 10-Day Other 5 day

RUSH 124-Hr 148-Hr 172-Hr 14-Day

Require lab approval

Detection Limit Requirements: _____

Message/s: _____

Connecticut: _____

Other: _____

# of Contain	1
** Preserve	1
*** Contain	1
Code	

Dissolved
 Field Filtered
 Lab to Filler

**Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tetlar bag
O=Other

**Preservation
I=iced
H=HCl
M=Methanol
N=Nitric Acid
S=Sulfuric Acid
B=Sodium bisulfate
X=Na hydroxide
T=Na thiosulfate
O=Other

*Matrix Code:
GW=groundwater
WW=wastewater
DW=drinking water
A=air
S=soil/solid
SL=sludge
O=other

Is your project MCP or RCP?

MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required PWSID # _____

NEIAC & AIHA Certified
WBE/DBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL NOT TO FURNISH INADEQUATE INFORMATION.

39 Spruce St.
 East Longmeadow, MA 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: CBS DATE: 3/25/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples?
 If not, explain: Yes No
- 3) Are all the samples in good condition?
 If not, explain: Yes No

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank: _____ Temperature °C by Temp gun: 4.6°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____
- 6) Are there any samples "On Hold"? Yes No Stored where:
- 7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

8) Location where samples are stored: Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

Containers received at Con-Test			
	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	47	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Do all samples have the proper Acid pH: Yes No N/A
 Do all samples have the proper Base pH: Yes No N/A



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 5
 Page 147 of 149

Company Name: TRC
 Address: 650 Saffolk St
Lowell, MA 01854
 Attention: Dave Sullivan
 Project Location: New Bedford
 Sampled By: Zack Richards

Telephone: 978-970-5600
 Project # 2205 115058
 Client PO# 32046
 DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Email: dsullivan@resolutions.com
 Format: PDF EXCEL GIS
 OTHER

# of Containers	** Preservation Code	*** Contain Code	Dissolved/undissolved
1	I	A	Field Filtered
1	I	A	Lab to Filter

ANALYSIS REQUESTED

Con-Test Lab ID <small>(Laborator use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix	Cap Code	MCP Metals + PAHs (8276)
		Beginning Date/Time	Ending Date/Time					
NR-Row-2 (1-3)	(5-7) (9-10)	3/24/11	1005	1010	X	S	X	3/25/11
RS-Row-1 (5-7)	RS-Row-1 (9-10.5)	3/24/11	1410	1415	X	S	X	
RS-Row-1 (10.5-12)	DUP-1		1420	1015	X	I	X	HOLD
DUP-2	DUP-2		1345		X	A	X	

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 3/25/11 13:25
 Turnaround 7-Day 10-Day Other 5 day
 RUSH 24-Hr 48-Hr 72-Hr 4-Day

Received by: (signature) [Signature] Date/Time: 3/25/11 18:50
 Require lab approval Other: _____

Detection Limit Requirements
 Massachusetts: _____
 Connecticut: _____

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State DW Form Required PWSID # _____

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE REFRAIN FROM CONTAMINATING THE CONTAINER



MADEP MCP Analytical Method Report Certification Form

Laboratory Name: **Con-Test Analytical Laboratory**

Project #: **11C0809**

Project Location: **New Bedford**

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11C0809-01 thru 11C0809-45

Matrices: **Soil**

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ 

Position: Laboratory Manager

Printed Name: Daren J. Damboragian

Date: 04/06/11

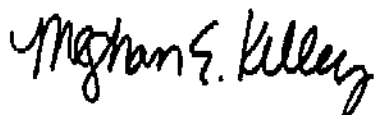
April 14, 2011

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: New Bedford
Client Job Number:
Project Number: 115058
Laboratory Work Order Number: 11D0094

Enclosed are results of analyses for samples received by the laboratory on April 4, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

REPORT DATE: 4/14/2011

TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 115058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11D0094

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-NM-30 (0-1)	11D0094-01	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-30 (1-3)	11D0094-02	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-31 (0-1)	11D0094-04	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-31 (1-3)	11D0094-05	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-32 (0-1)	11D0094-07	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
SB-NM-32 (1-3)	11D0094-08	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-2 (0-1)	11D0094-10	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-2 (1-3)	11D0094-11	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-2 (3-5)	11D0094-12	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-2 (8-9)	11D0094-13	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 4/14/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 113058

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11D0094

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RG-ROW-3 (0-1)	11D0094-15	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-3 (1-3)	11D0094-16	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-3 (5-7)	11D0094-17	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
RG-ROW-3 (7-8)	11D0094-18	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	
DUP-3	11D0094-20	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8270C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, the beryllium hit for sample 11D0094-08 was confirmed by method 6020.

For method 8270, only PAH compounds were requested and reported.

5W-846 6010C

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Barium
B028532-BSD1

Result is serial dilution as per MA CAM/ CT RCP regulation.

Analyte & Samples(s) Qualified:

B028428-DUP2, B028532-DUP2

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony, Selenium
11D0094-12RE1[RG-ROW-2 (3-5)], B028532-MS1, B028532-MSD1, 11D0094-12[RG-ROW-2 (3-5)], B028428-MS1, B028428-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Lead
11D0094-12RE1[RG-ROW-2 (3-5)], B028532-MSO1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Barium
11D0094-12[RG-ROW-2 (3-5)], B028428-MS1, B028428-MSD1

LCS duplicate was reanalyzed. Low recovery is confirmed.

Analyte & Samples(s) Qualified:

Barium
B028532-BSD1

Serial dilution RPD is outside control limits. Increased variability for reported result cannot be eliminated.

Analyte & Samples(s) Qualified:

Lead
B028532-DUP2

5W-846 8270C

Qualifications:

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Acenaphthene, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Fluorene, Indeno(1,2,3-cd)pyrene
11D0094-12[RG-ROW-2 (3-5)], B028702-MS1, B028702-MSD1

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Fluoranthene, Phenanthrene, Pyrene
11D0094-12RE1[RG-ROW-2 (3-5)], B028702-MS1, B028702-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Benzo(k)fluoranthene
B028702-MS1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Benzo(a)pyrene, Chrysene
B028702-MS1

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene
11D0094-12RE1[RG-ROW-2 (3-5)], B028702-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damborgian
Laboratory Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (0-1)

Sampled: 4/1/2011 11:15

Sample ID: 11D0094-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	3.3	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Acenaphthylene	ND	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Anthracene	5.3	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Benzo(a)anthracene	13	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Benzo(a)pyrene	11	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Benzo(b)fluoranthene	14	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Benzo(g,h,i)perylene	4.3	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Benzo(k)fluoranthene	6.6	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Chrysene	12	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Dibenz(a,h)anthracene	1.3	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Fluoranthene	29	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Fluorene	2.7	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Indeno(1,2,3-cd)pyrene	5.5	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
2-Methylnaphthalene	0.86	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Naphthalene	1.2	0.43	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 20:48	BGL
Phenanthrene	20	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Pyrene	21	1.7	mg/Kg dry	4		SW-846 8270C	4/9/11	4/11/11 13:50	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	52.2		30-130			4/10/11 20:48			
2-Fluorobiphenyl	51.2		30-130			4/10/11 20:48			
Tetraphenyl-d14	37.0		30-130			4/10/11 20:48			



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (0-1)

Sampled: 4/1/2011 11:15

Sample ID: 11D0094-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Arsenic	15	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Barium	950	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Cadmium	3.1	0.32	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Chromium	140	0.65	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Lead	740	0.97	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Mercury	1.8	0.15	mg/Kg dry	5		SW-846 7471B	4/5/11	4/6/11 15:03	CWB
Nickel	41	0.65	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Silver	ND	0.65	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Vanadium	83	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH
Zinc	780	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:10	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (0-1)

Sampled: 4/1/2011 11:15

Sample ID: 11D0094-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APIHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (1-3)

Sampled: 4/1/2011 11:20

Sample ID: 11D0094-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Acenaphthene	1.9	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Acenaphthylene	1.9	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Anthracene	15	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Benzo(a)anthracene	24	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Benzo(a)pyrene	19	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Benzo(b)fluoranthene	22	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Benzo(g,h,i)perylene	4.9	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Benzo(k)fluoranthene	9.3	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Chrysene	22	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Dibenz(a,h)anthracene	1.5	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Fluoranthene	61	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Fluorene	3.5	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Indeno(1,2,3-cd)pyrene	6.7	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
2-Methylnaphthalene	0.65	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Naphthalene	0.64	0.42	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:15	BGL
Phenanthrene	65	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Pyrene	48	4.2	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 14:17	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	59.2		30-130						4/10/11 21:15
2-Fluorobiphenyl	67.9		30-130						4/10/11 21:15
Triphenyl-d14	45.1		30-130						4/10/11 21:15



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (1-3)

Sampled: 4/1/2011 11:20

Sample ID: 11D0094-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Arsenic	6.7	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Barium	340	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Cadmium	2.0	0.31	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Chromium	38	0.62	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Lead	1000	0.93	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Mercury	0.94	0.087	mg/Kg dry	3		SW-846 7471B	4/5/11	4/6/11 15:05	CWB
Nickel	16	0.62	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Vanadium	32	1.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH
Zinc	380	1.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:14	KSH



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (1-3)

Sampled: 4/1/2011 11:20

Sample ID: 11D0094-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APIA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF

Project Location: New Bedford
 Date Received: 4/4/2011
 Field Sample #: RG-ROW-2 (3-5)
 Sample ID: 11D0094-12
 Sample Matrix: Soil

Sample Description:
 Sampled: 4/1/2011 11:25

Work Order: 11D0094

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.3	0.19	mg/Kg dry	1	MS-07A	SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Acenaphthylene	0.50	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Anthracene	8.6	1.9	mg/Kg dry	10	MS-19, R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Benzo(a)anthracene	8.3	1.9	mg/Kg dry	10	MS-19, R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Benzo(a)pyrene	6.4	1.9	mg/Kg dry	10	R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Benzo(b)fluoranthene	7.8	1.9	mg/Kg dry	10	MS-19, R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Benzo(g,h,i)perylene	1.9	0.19	mg/Kg dry	1	MS-07A	SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Benzo(k)fluoranthene	3.2	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Chrysene	7.3	1.9	mg/Kg dry	10	R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Dibenz(a,h)anthracene	0.59	0.19	mg/Kg dry	1	MS-07A	SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Fluoranthene	25	1.9	mg/Kg dry	10	MS-19, R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Fluorene	2.2	0.19	mg/Kg dry	1	MS-07A	SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Indeno(1,2,3-cd)pyrene	2.6	0.19	mg/Kg dry	1	MS-07A	SW-846 8270C	4/9/11	4/10/11 21:42	BGL
2-Methylnaphthalene	0.49	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Naphthalene	0.25	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 21:42	BGL
Phenanthrene	31	1.9	mg/Kg dry	10	MS-19, R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Pyrene	16	1.9	mg/Kg dry	10	MS-19, R-06	SW-846 8270C	4/9/11	4/11/11 14:45	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	59.0		30-130				4/10/11 21:42		
2-Fluorobiphenyl	56.2		30-130				4/10/11 21:42		
Terphenyl-d14	49.5		30-130				4/10/11 21:42		

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (3-5)

Sampled: 4/1/2011 11:25

Sample ID: 11D0094-12

Sample Matrix: Soil

Metals Analysis (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Antimony	ND	2.7	mg/Kg dry	1	MS-07A	SW-846 6010C	4/6/11	4/7/11 19:06	KSH
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Barium	98	2.6	mg/Kg dry	1	MS-23	SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Cadmium	0.31	0.26	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Chromium	8.1	0.55	mg/Kg dry	1		SW-846 6010C	4/6/11	4/7/11 19:06	KSH
Lead	110	0.82	mg/Kg dry	1	MS-22	SW-846 6010C	4/6/11	4/7/11 19:06	KSH
Mercury	0.10	0.027	mg/Kg dry	1		SW-846 7471B	4/5/11	4/6/11 14:19	CWB
Nickel	3.8	0.53	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Selenium	ND	5.3	mg/Kg dry	1	MS-07A	SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	4/6/11	4/7/11 19:06	KSH
Vanadium	11	1.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH
Zinc	64	1.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 12:20	KSH



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (3-5)

Sampled: 4/1/2011 11:25

Sample ID: 11D0094-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.2		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (8-9)

Sampled: 4/1/2011 11:30

Sample ID: 11D0094-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Acenaphthene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Acenaphthylene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Anthracene	NO	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Benzo(a)anthracene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Benzo(a)pyrene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Benzo(b)fluoranthene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Benzo(g,h,i)perylene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Benzo(k)fluoranthene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Chrysene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Dibenz(a,h)anthracene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Fluoranthene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Fluorene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
2-Methylnaphthalene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Naphthalene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Phenanthrene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Pyrene	ND	0.30	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:09	BGL
Surrogates	% Recovery	Recovery Limits			Flag				
Nitrobenzene-d5	58.5	30-130						4/10/11 22:09	
2-Fluorobiphenyl	58.4	30-130						4/10/11 22:09	
Terphenyl-d14	38.2	30-130						4/10/11 22:09	



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-1 (8-9)

Sampled: 4/1/2011 11:30

Sample ID: 11D0094-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	4.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Arsenic	ND	4.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Barium	80	4.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Beryllium	ND	0.44	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Cadmium	0.52	0.44	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Chromium	12	0.88	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Lead	71	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSR
Mercury	0.11	0.042	mg/Kg dry	1		SW-846 7471B	4/5/11	4/5/11 13:56	CWB
Nickel	6.4	0.88	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Selenium	ND	8.8	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Silver	ND	0.88	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Thallium	ND	4.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Vanadium	16	1.8	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH
Zinc	270	1.8	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:19	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-2 (B-9)

Sampled: 4/1/2011 11:30

Sample ID: 11D0094-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.0		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (0-1)

Sampled: 4/1/2011 11:45

Sample ID: 11D0094-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Benzo(a)anthracene	0.47	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Benzo(a)pyrene	0.51	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Benzo(b)fluoranthene	0.76	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Benzo(k)fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Chrysene	0.48	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Fluoranthene	1.1	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Indeno(1,2,3-cd)pyrene	0.21	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Phenanthrene	0.60	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Pyrene	0.57	0.19	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 22:36	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		58.3	30-130					4/10/11 22:36	
2-Fluorobiphenyl		56.7	30-130					4/10/11 22:36	
Terphenyl-d14		45.4	30-130					4/10/11 22:36	



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (0-1)

Sampled: 4/1/2011 11:45

Sample ID: 11D0094-15

Sample Matrix: Soil

Metals Analyzes (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Barium	39	3.0	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Chromium	15	0.60	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Lead	36	0.90	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Mercury	0.042	0.028	mg/Kg dry	1		SW-846 7471B	4/5/11	4/5/11 13:58	CWB
Nickel	8.8	0.60	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Vanadium	15	1.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH
Zinc	40	1.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:24	KSH



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (0-1)

Sampled: 4/1/2011 11:45

Sample ID: 11D0094-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (1-3)

Sampled: 4/1/2011 11:50

Sample ID: 11D0094-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	5.4	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Acenaphthylene	ND	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Anthracene	11	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Benzo(a)anthracene	29	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Benzo(a)pyrene	27	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Benzo(b)fluoranthene	35	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Benzo(g,h,i)perylene	9.2	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Benzo(k)fluoranthene	13	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Chrysene	29	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Dibenz(a,h)anthracene	2.5	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Fluoranthene	80	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Fluorene	4.5	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Indeno(1,2,3-cd)pyrene	19	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
2-Methylnaphthalene	0.96	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Naphthalene	1.2	0.45	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:03	BGL
Phenanthrene	53	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Pyrene	51	4.5	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 15:12	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	64.7		30-130			4/10/11 23:03			
2-Fluorobiphenyl	72.6		30-130			4/10/11 23:03			
Terphenyl-d14	39.4		30-130			4/10/11 23:03			



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (I-3)

Sampled: 4/1/2011 11:50

Sample ID: 11D0094-16

Sample Matrix: Soil

Metals Analyzes (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Arsenic	ND	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Barium	240	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Cadmium	0.69	0.32	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Chromium	55	0.64	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Lead	320	0.96	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Mercury	0.42	0.033	mg/Kg dry	1		SW-846 7471H	4/5/11	4/5/11 13:59	CWB
Nickel	55	0.64	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Vanadium	37	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH
Zinc	310	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:43	KSH



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (1-3)

Sampled: 4/1/2011 11:50

Sample ID: 11D0094-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APIIA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.3	.	% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (5-7)

Sampled: 4/1/2011 11:55

Sample ID: 11D0094-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.3	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Acenaphthylene	ND	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Anthracene	5.1	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Benzo(a)anthracene	12	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Benzo(a)pyrene	11	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Benzo(b)fluoranthene	14	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Benzo(g,h,i)perylene	5.3	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Benzo(k)fluoranthene	5.3	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Chrysene	12	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Dibenz(a,h)anthracene	1.5	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Fluoranthene	29	2.3	mg/Kg dry	5		SW-846 8270C	4/9/11	4/11/11 16:06	BGL
Fluorene	2.7	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Indeno(1,2,3-cd)pyrene	6.6	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
2-Methylnaphthalene	ND	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Naphthalene	1.3	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Phenanthrene	22	2.3	mg/Kg dry	5		SW-846 8270C	4/9/11	4/11/11 16:06	BGL
Pyrene	18	0.91	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 15:39	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	66.7	30-130	4/11/11 15:39						
2-Fluorobiphenyl	65.5	30-130	4/11/11 15:39						
Terphenyl-d14	59.0	30-130	4/11/11 15:39						



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (5-7)

Sampled: 4/1/2011 11:55

Sample ID: 11D0094-17

Sample Matrix: Soil

Metals Analysis (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Antimony	ND	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Arsenic	9.4	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Barium	530	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Beryllium	ND	0.31	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Cadmium	2.1	0.31	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Chromium	44	0.63	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Lead	710	0.94	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Mercury	0.99	0.096	mg/Kg dry	3		SW-846 7471B	4/5/11	4/5/11 14:26	CWB
Nickel	34	0.63	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Silver	ND	0.63	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Thallium	ND	3.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Vanadium	32	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH
Zinc	510	1.3	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:48	KSH



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RC-ROW-3 (5-7)

Sampled: 4/1/2011 11:55

Sample ID: 11D0094-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.5		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (7-8)

Sampled: 4/1/2011 12:00

Sample ID: 11D0094-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Benzo(a)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Benzo(a)pyrene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Benzo(b)fluoranthene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Benzo(g,h,i)perylene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Benzo(k)fluoranthene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Chrysene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Fluoranthene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Phenanthrene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Pyrene	ND	0.24	mg/Kg dry	1		SW-846 8270C	4/9/11	4/10/11 23:57	BGL
Surrogates	% Recovery	Recovery Limits			Flag				
Nitrobenzene-d5	55.2	30-130				4/10/11 23:57			
2-Fluorobiphenyl	60.3	30-130				4/10/11 23:57			
Terphenyl-d14	32.8	30-130				4/10/11 23:57			



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (7-8)

Sampled: 4/1/2011 12:00

Sample ID: 11D0094-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Arsenic	ND	3.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Barium	27	3.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Beryllium	ND	0.34	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Cadmium	ND	0.34	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Chromium	5.8	0.68	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Lead	14	1.0	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Mercury	0.068	0.034	mg/Kg dry	1		SW-846 7471B	4/5/11	4/5/11 14:03	CWB
Nickel	3.6	0.68	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Selenium	ND	6.8	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Silver	ND	0.68	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Thallium	ND	3.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Vanadium	21	1.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH
Zinc	39	1.4	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:53	KSH



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Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: RG-ROW-3 (7-8)

Sampled: 4/1/2011 12:00

Sample ID: 11D0094-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APIIA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.8		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: DUP-3

Sampled: 4/1/2011 12:10

Sample ID: 11D0094-20

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.5	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Acenaphthylene	3.1	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Anthracene	17	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Benzo(a)anthracene	22	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Benzo(a)pyrene	18	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Benzo(b)fluoranthene	21	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Benzo(g,h,i)perylene	5.9	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Benzo(k)fluoranthene	10	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Chrysene	20	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Dibenz(a,h)anthracene	1.8	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Fluoranthene	67	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Fluorene	5.1	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Indeno(1,2,3-cd)pyrene	8.0	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
2-Methylnaphthalene	1.0	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Naphthalene	0.91	0.82	mg/Kg dry	2		SW-846 8270C	4/9/11	4/11/11 0:24	BGL
Phenanthrene	63	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Pyrene	39	4.1	mg/Kg dry	10		SW-846 8270C	4/9/11	4/11/11 16:33	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		58.0	30-130					4/11/11 0:24	
2-Fluorobiphenyl		66.5	30-130					4/11/11 0:24	
Terphenyl-d14		37.4	30-130					4/11/11 0:24	

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: DUP-3

Sampled: 4/1/2011 12:10

Sample ID: 11D0094-20

Sample Matrix: Soil

Metals Analyzes (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Barium	23	2.9	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Beryllium	ND	0.29	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Chromium	4.8	0.57	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Lead	12	0.86	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Mercury	0.69	0.058	mg/Kg dry	2		SW-846 7471B	4/5/11	4/5/11 14:32	CWB
Nickel	3.2	0.57	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Vanadium	20	1.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH
Zinc	37	1.1	mg/Kg dry	1		SW-846 6010C	4/5/11	4/6/11 16:57	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: New Bedford

Sample Description:

Work Order: 11D0094

Date Received: 4/4/2011

Field Sample #: DUP-3

Sampled: 4/1/2011 12:10

Sample ID: 11D0094-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	4/6/11	4/7/11 12:58	VAF

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11D0094-01 [SB-NM-30 (0-1)]	B028488	04/06/11
11D0094-02 [SB-NM-30 (1-3)]	B028488	04/06/11
11D0094-04 [SB-NM-31 (0-1)]	B028488	04/06/11
11D0094-05 [SB-NM-31 (1-3)]	B028488	04/06/11
11D0094-07 [SB-NM-32 (0-1)]	B028488	04/06/11
11D0094-08 [SB-NM-32 (1-3)]	B028488	04/06/11
11D0094-10 [RG-ROW-2 (0-1)]	B028488	04/06/11
11D0094-11 [RG-ROW-2 (1-3)]	B028488	04/06/11
11D0094-12 [RG-ROW-2 (3-5)]	B028488	04/06/11
11D0094-13 [RG-ROW-2 (8-9)]	B028488	04/06/11
11D0094-15 [RG-ROW-3 (0-1)]	B028488	04/06/11
11D0094-16 [RG-ROW-3 (1-3)]	B028488	04/06/11
11D0094-17 [RG-ROW-3 (5-7)]	B028488	04/06/11
11D0094-18 [RG-ROW-3 (7-8)]	B028488	04/06/11
11D0094-20 [DUP-3]	B028488	04/06/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11D0094-01 [SB-NM-30 (0-1)]	B028428	1.03	50.0	04/05/11
11D0094-02 [SB-NM-30 (1-3)]	B028428	1.10	50.0	04/05/11
11D0094-04 [SB-NM-31 (0-1)]	B028428	0.983	50.0	04/05/11
11D0094-05 [SB-NM-31 (1-3)]	B028428	0.937	50.0	04/05/11
11D0094-07 [SB-NM-32 (0-1)]	B028428	1.07	50.0	04/05/11
11D0094-08 [SB-NM-32 (1-3)]	B028428	1.02	50.0	04/05/11
11D0094-10 [RG-ROW-2 (0-1)]	B028428	0.983	50.0	04/05/11
11D0094-11 [RG-ROW-2 (1-3)]	B028428	0.984	50.0	04/05/11
11D0094-12 [RG-ROW-2 (3-5)]	B028428	1.04	50.0	04/05/11
11D0094-13 [RG-ROW-2 (8-9)]	B028428	1.01	50.0	04/05/11
11D0094-15 [RG-ROW-3 (0-1)]	B028428	0.943	50.0	04/05/11
11D0094-16 [RG-ROW-3 (1-3)]	B028428	1.03	50.0	04/05/11
11D0094-17 [RG-ROW-3 (5-7)]	B028428	1.07	50.0	04/05/11
11D0094-18 [RG-ROW-3 (7-8)]	B028428	1.04	50.0	04/05/11
11D0094-20 [DUP-3]	B028428	1.05	50.0	04/05/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11D0094-12RE1 [RG-ROW-2 (3-5)]	B028532	1.00	50.0	04/06/11

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11D0094-13 [RG-ROW-2 (8-9)]	B028404	0.632	50.0	04/05/11
11D0094-15 [RG-ROW-3 (0-1)]	B028404	0.602	50.0	04/05/11
11D0094-16 [RG-ROW-3 (1-3)]	B028404	0.602	50.0	04/05/11
11D0094-17 [RG-ROW-3 (5-7)]	B028404	0.628	50.0	04/05/11
11D0094-18 [RG-ROW-3 (7-8)]	B028404	0.629	50.0	04/05/11
11D0094-20 [DUP-3]	B028404	0.626	50.0	04/05/11

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11D0094-01 [SB-NM-30 (0-1)]	B028405	0.639	50.0	04/05/11
11D0094-02 [SB-NM-30 (1-3)]	B028405	0.607	50.0	04/05/11
11D0094-04 [SB-NM-31 (0-1)]	B028405	0.628	50.0	04/05/11
11D0094-05 [SB-NM-31 (1-3)]	B028405	0.632	50.0	04/05/11
11D0094-07 [SB-NM-32 (0-1)]	B028405	0.616	50.0	04/05/11
11D0094-08 [SB-NM-32 (1-3)]	B028405	0.623	50.0	04/05/11
11D0094-10 [RG-ROW-2 (0-1)]	B028405	0.620	50.0	04/05/11
11D0094-11 [RG-ROW-2 (1-3)]	B028405	0.631	50.0	04/05/11
11D0094-12 [RG-ROW-2 (3-5)]	B028405	0.617	50.0	04/05/11

Prep Method: SW-846 3546-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11D0094-01 [SB-NM-30 (0-1)]	B028702	30.1	1.00	04/09/11
11D0094-02 [SB-NM-30 (1-3)]	B028702	30.1	1.00	04/09/11
11D0094-04 [SB-NM-31 (0-1)]	B028702	30.0	1.00	04/09/11
11D0094-05 [SB-NM-31 (1-3)]	B028702	30.0	1.00	04/09/11
11D0094-07 [SB-NM-32 (0-1)]	B028702	30.0	1.00	04/09/11
11D0094-08 [SB-NM-32 (1-3)]	B028702	30.1	1.00	04/09/11
11D0094-10 [RG-ROW-2 (0-1)]	B028702	30.0	2.00	04/09/11
11D0094-10RE1 [RG-ROW-2 (0-1)]	B028702	30.0	2.00	04/09/11
11D0094-11 [RG-ROW-2 (1-3)]	B028702	30.0	2.00	04/09/11
11D0094-11RE1 [RG-ROW-2 (1-3)]	B028702	30.0	2.00	04/09/11
11D0094-12 [RG-ROW-2 (3-5)]	B028702	30.0	1.00	04/09/11
11D0094-12RE1 [RG-ROW-2 (3-5)]	B028702	30.0	1.00	04/09/11
11D0094-13 [RG-ROW-2 (8-9)]	B028702	30.2	1.00	04/09/11
11D0094-15 [RG-ROW-3 (0-1)]	B028702	30.0	1.00	04/09/11
11D0094-16 [RG-ROW-3 (1-3)]	B028702	30.0	2.00	04/09/11
11D0094-16RE1 [RG-ROW-3 (1-3)]	B028702	30.0	2.00	04/09/11
11D0094-17 [RG-ROW-3 (5-7)]	B028702	30.1	2.00	04/09/11
11D0094-17RE1 [RG-ROW-3 (5-7)]	B028702	30.1	2.00	04/09/11
11D0094-18 [RG-ROW-3 (7-8)]	B028702	30.1	1.00	04/09/11
11D0094-20 [DUP-3]	B028702	30.1	2.00	04/09/11
11D0094-20RE1 [DUP-3]	B028702	30.1	2.00	04/09/11

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028702 - SW-846 3546										
Blank (B028702-BLK1) Prepared: 04/09/11 Analyzed: 04/10/11										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.96		mg/Kg wet	3.33		88.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.95		mg/Kg wet	3.33		88.4	30-130			
Surrogate: Terphenyl-d14	3.01		mg/Kg wet	3.33		90.3	30-130			
LCS (B028702-BS1) Prepared: 04/09/11 Analyzed: 04/10/11										
Acenaphthene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Acenaphthylene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
Anthracene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140			
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			
Benzo(b)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Benzo(g,h,i)perylene	1.25	0.17	mg/Kg wet	1.67		74.7	40-140			
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Chrysene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Fluoranthene	2.19	0.17	mg/Kg wet	1.67		131	40-140			
Fluorene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Naphthalene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Phenanthrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140			
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Surrogate: Nitrobenzene-d5	2.71		mg/Kg wet	3.33		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.92		mg/Kg wet	3.33		87.5	30-130			
Surrogate: Terphenyl-d14	3.40		mg/Kg wet	3.33		102	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028702 - 5W-846 3546										
LCS Dup (B028702-BSD1)										
					Prepared: 04/09/11 Analyzed: 04/10/11					
Acenaphthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	2.26	30	
Acenaphthylene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	0.369	30	
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.5	40-140	1.87	30	
Benzo(a)anthracene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140	2.18	30	
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140	9.55	30	
Benzo(b)fluoranthene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140	6.95	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	3.01	30	
Benzo(k)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140	10.5	30	
Chrysene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	3.02	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140	4.41	30	
Fluoranthene	1.83	0.17	mg/Kg wet	1.67		110	40-140	17.6	30	
Fluorene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	2.10	30	
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	7.92	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	2.35	30	
Naphthalene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	0.972	30	
Phenanthrene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	2.67	30	
Pyrene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140	4.34	30	
Surrogate: Nitrobenzene-d5	2.67		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.77		mg/Kg wet	3.33		83.0	30-130			
Surrogate: Terphenyl-d14	1.07		mg/Kg wet	3.33		92.0	30-130			
Matrix Spike (B028702-MS1)										
				Source: 11D0094-12		Prepared: 04/09/11 Analyzed: 04/11/11				
Acenaphthene	1.69	0.19	mg/Kg dry	1.83	1.35	18.6	* 40-140			MS-07A
Acenaphthylene	1.48	0.19	mg/Kg dry	1.83	0.501	53.8	40-140			
Anthracene	5.08	1.9	mg/Kg dry	1.83	8.26	-174	* 40-140			MS-19
Benzo(a)anthracene	5.82	1.9	mg/Kg dry	1.83	8.64	-154	* 40-140			MS-19
Benzo(a)pyrene	4.92	1.9	mg/Kg dry	1.83	6.27	-73.7	* 40-140			MS-23
Benzo(b)fluoranthene	5.57	1.9	mg/Kg dry	1.83	9.01	-188	* 40-140			MS-19
Benzo(g,h,i)perylene	1.92	0.19	mg/Kg dry	1.83	1.87	2.56	* 40-140			MS-07A
Benzo(k)fluoranthene	3.59	0.19	mg/Kg dry	1.83	3.20	21.3	* 40-140			MS-22
Chrysene	5.36	1.9	mg/Kg dry	1.83	7.25	-103	* 40-140			MS-23
Dibenz(a,h)anthracene	1.12	0.19	mg/Kg dry	1.83	0.591	28.7	* 40-140			MS-07A
Fluoranthene	15.3	1.9	mg/Kg dry	1.83	23.1	-428	* 40-140			MS-19
Fluorene	1.77	0.19	mg/Kg dry	1.83	2.16	-21.7	* 40-140			MS-07A
Indeno(1,2,3-cd)pyrene	2.43	0.19	mg/Kg dry	1.83	2.60	-9.08	* 40-140			MS-07A
2-Methylnaphthalene	1.47	0.19	mg/Kg dry	1.83	0.490	53.9	40-140			
Naphthalene	1.27	0.19	mg/Kg dry	1.83	0.251	55.7	40-140			
Phenanthrene	15.7	1.9	mg/Kg dry	1.83	25.4	-533	* 40-140			MS-19
Pyrene	9.69	1.9	mg/Kg dry	1.83	11.1	-75.1	* 40-140			MS-19
Surrogate: Nitrobenzene-d5	2.48		mg/Kg dry	3.65		67.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg dry	3.65		73.8	30-130			
Surrogate: Terphenyl-d14	1.67		mg/Kg dry	3.65		45.6	30-130			



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028702 - SW-846 3546										
Matrix Spike Dup (B028702-MSD1)										
		Source: 11D0094-12			Prepared: 04/09/11		Analyzed: 04/11/11			
Acenaphthene	1.69	0.19	mg/Kg dry	1.83	1.35	19.1	* 40-140	0.454	30	MS-07A
Acenaphthylene	1.54	0.19	mg/Kg dry	1.83	0.501	56.7	40-140	3.41	30	
Anthracene	7.67	1.9	mg/Kg dry	1.83	8.26	-32.3	* 40-140	40.5	* 30	MS-19, R-06
Benzo(a)anthracene	8.95	1.9	mg/Kg dry	1.83	8.64	17.4	* 40-140	42.5	* 30	MS-19, R-06
Benzo(a)pyrene	7.31	1.9	mg/Kg dry	1.83	6.27	56.9	40-140	39.0	* 30	R-06
Benzo(b)fluoranthene	8.36	1.9	mg/Kg dry	1.83	9.01	-35.9	* 40-140	40.0	* 30	MS-19, R-06
Benzo(g,h,i)perylene	1.96	0.19	mg/Kg dry	1.83	1.87	4.98	* 40-140	2.28	30	MS-07A
Benzo(k)fluoranthene	4.36	0.19	mg/Kg dry	1.83	3.20	63.2	40-140	19.3	30	
Chrysene	8.10	1.9	mg/Kg dry	1.83	7.25	46.7	40-140	40.7	* 30	R-06
Dibenz(a,h)anthracene	1.18	0.19	mg/Kg dry	1.83	0.591	32.3	* 40-140	5.66	30	MS-07A
Fluoranthene	22.7	1.9	mg/Kg dry	1.83	23.1	-24.1	* 40-140	38.9	* 30	R-06, MS-19
Fluorene	1.84	0.19	mg/Kg dry	1.83	2.16	-17.8	* 40-140	3.95	30	MS-07A
Indeno(1,2,3-cd)pyrene	2.77	0.19	mg/Kg dry	1.83	2.60	9.44	* 40-140	13.0	30	MS-07A
2-Methylnaphthalene	1.46	0.19	mg/Kg dry	1.83	0.490	52.9	40-140	1.20	30	
Naphthalene	1.24	0.19	mg/Kg dry	1.83	0.251	53.9	40-140	2.71	30	
Phenanthrene	24.3	1.9	mg/Kg dry	1.83	25.4	-64.8	* 40-140	42.8	* 30	MS-19, R-06
Pyrene	15.6	1.9	mg/Kg dry	1.83	11.1	250	* 40-140	46.9	* 30	MS-19, R-06
Surrogate: Nitrobenzene-d5	2.42		mg/Kg dry	3.65		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.74		mg/Kg dry	3.65		75.0	30-130			
Surrogate: Terphenyl-d14	1.58		mg/Kg dry	3.65		43.2	30-130			



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPO Limit	Notes
Batch B028404 - SW-846 7471										
Blank (B028404-BLK1) Prepared & Analyzed: 04/05/11										
Mercury	ND	0.025	mg/Kg wet							
LCS (B028404-BS1) Prepared & Analyzed: 04/05/11										
Mercury	1.17	0.091	mg/Kg wet	1.25		93.8	66-132			
LCS Dup (B028404-BSD1) Prepared & Analyzed: 04/05/11										
Mercury	1.17	0.092	mg/Kg wet	1.25		93.6	66-132	0.164	30	
Batch B028405 - SW-846 7471										
Blank (B028405-BLK1) Prepared: 04/05/11 Analyzed: 04/06/11										
Mercury	ND	0.025	mg/Kg wet							
LCS (B028405-BS1) Prepared: 04/05/11 Analyzed: 04/06/11										
Mercury	1.14	0.092	mg/Kg wet	1.25		91.3	66-132			
LCS Dup (B028405-BSD1) Prepared: 04/05/11 Analyzed: 04/06/11										
Mercury	1.10	0.091	mg/Kg wet	1.25		88.3	66-132	3.31	30	
Duplicate (B028405-DUP1) Source: 11D0094-12 Prepared: 04/05/11 Analyzed: 04/06/11										
Mercury	0.119	0.027	mg/Kg dry		0.0997			17.6	35	
Matrix Spike (B028405-MS1) Source: 11D0094-12 Prepared: 04/05/11 Analyzed: 04/06/11										
Mercury	0.296	0.027	mg/Kg dry	0.178	0.0997	111	75-125			
Matrix Spike Dup (B028405-MSD1) Source: 11D0094-12 Prepared: 04/05/11 Analyzed: 04/06/11										
Mercury	0.297	0.027	mg/Kg dry	0.178	0.0997	111	75-125	0.273	35	
Batch B028428 - SW-846 3050B										
Blank (B028428-BLK1) Prepared: 04/05/11 Analyzed: 04/06/11										
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

QUALITY CONTROL

Metals Analyzes (Total) - Quality Control

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028428 - SW-846 3050B										
LCS (B028428-BS1) Prepared: 04/05/11 Analyzed: 04/06/11										
Antimony	65.9	5.0	mg/Kg wet	121		54.5	30-219			
Arsenic	92.3	5.0	mg/Kg wet	109		84.7	83.2-117.4			
Barium	286	5.0	mg/Kg wet	325		88.1	83.1-116.9			
Beryllium	87.3	0.50	mg/Kg wet	92.1		94.7	83.7-116.2			
Cadmium	97.3	0.50	mg/Kg wet	110		88.5	80.7-119.1			
Chromium	81.5	1.0	mg/Kg wet	93.4		87.2	80.6-119.9			
Lead	124	1.5	mg/Kg wet	152		81.4	78.9-121.1			
Nickel	94.8	1.0	mg/Kg wet	109		87.0	81.2-118.3			
Selenium	170	10	mg/Kg wet	207		82.1	79.2-120.3			
Silver	42.9	1.0	mg/Kg wet	51.9		82.6	66.3-133.7			
Thallium	149	5.0	mg/Kg wet	171		86.9	77.8-121.6			
Vanadium	99.6	2.0	mg/Kg wet	110		90.6	76.8-123.6			
Zinc	253	2.0	mg/Kg wet	299		84.6	81.9-117.7			
LCS (B028428-BS2) Prepared: 04/05/11 Analyzed: 04/06/11										
Lead	0.263	0.77	mg/Kg wet	0.773		98.7	80-120			
LCS Dup (B028428-BSD1) Prepared: 04/05/11 Analyzed: 04/06/11										
Antimony	64.5	5.0	mg/Kg wet	121		53.3	30-219	2.20	30	
Arsenic	102	5.0	mg/Kg wet	109		93.5	83.2-117.4	9.81	30	
Barium	278	5.0	mg/Kg wet	325		85.4	83.1-116.9	3.15	30	
Beryllium	84.4	0.50	mg/Kg wet	92.1		91.6	83.7-116.2	3.36	30	
Cadmium	92.5	0.50	mg/Kg wet	110		84.1	80.7-119.1	5.06	30	
Chromium	78.2	1.0	mg/Kg wet	93.4		83.7	80.6-119.9	4.09	30	
Lead	138	1.5	mg/Kg wet	152		90.6	78.9-121.1	10.7	30	
Nickel	89.8	1.0	mg/Kg wet	109		82.4	81.2-118.3	5.39	30	
Selenium	167	10	mg/Kg wet	207		80.7	79.2-120.3	1.72	30	
Silver	41.4	1.0	mg/Kg wet	51.9		79.7	66.3-133.7	3.59	30	
Thallium	144	5.0	mg/Kg wet	171		84.5	77.8-121.6	2.81	30	
Vanadium	96.1	2.0	mg/Kg wet	110		87.4	76.8-123.6	3.59	30	
Zinc	274	2.0	mg/Kg wet	299		91.7	81.9-117.7	7.96	30	
Duplicate (B028428-DUP1) Source: 11D0094-12 Prepared: 04/05/11 Analyzed: 04/06/11										
Arsenic	ND	2.7	mg/Kg dry			ND		NC	35	
Barium	103	2.7	mg/Kg dry			98.4		4.88	35	
Beryllium	ND	0.27	mg/Kg dry			ND		NC	35	
Cadmium	0.323	0.27	mg/Kg dry			0.314		3.11	35	
Nickel	3.69	0.54	mg/Kg dry			3.80		2.94	35	
Selenium	ND	5.4	mg/Kg dry			ND		NC	35	
Silver	ND	0.54	mg/Kg dry			ND		NC	35	
Vanadium	12.1	1.1	mg/Kg dry			11.1		8.37	35	
Zinc	70.3	1.1	mg/Kg dry			63.7		9.81	35	



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028428 - SW-846 3050B										
Duplicate (B028428-DUP2)										
		Source: 11D0094-12			Prepared: 04/05/11		Analyzed: 04/06/11		M-07	
Barium	106	13	mg/Kg dry		98.4		75-125	7.53	10	
Zinc	71.4	5.3	mg/Kg dry		63.7		75-125	11.3	10	
Matrix Spike (B028428-MS1)										
		Source: 11D0094-12			Prepared: 04/05/11		Analyzed: 04/06/11			
Arsenic	23.4	2.7	mg/Kg dry	27.3	1.50	80.3	75-125			
Barium	1600	2.7	mg/Kg dry	27.3	98.4	5510	75-125			MS-23
Beryllium	22.9	0.27	mg/Kg dry	27.3	ND	84.0	75-125			
Cadmium	22.5	0.27	mg/Kg dry	27.3	0.314	81.4	75-125			
Nickel	24.9	0.55	mg/Kg dry	27.3	3.80	77.2	75-125			
Selenium	16.0	5.5	mg/Kg dry	27.3	ND	58.5	75-125			MS-07A
Silver	20.7	0.55	mg/Kg dry	27.3	ND	75.8	75-125			
Vanadium	34.7	1.1	mg/Kg dry	27.3	11.1	86.5	75-125			
Zinc	88.9	1.1	mg/Kg dry	27.3	63.7	92.4	75-125			
Matrix Spike Dup (B028428-MSD1)										
		Source: 11D0094-12			Prepared: 04/05/11		Analyzed: 04/06/11			
Arsenic	23.9	2.7	mg/Kg dry	27.1	1.50	82.5	75-125	2.02	35	
Barium	131	2.7	mg/Kg dry	27.1	98.4	121	75-125	170	35	MS-23
Beryllium	23.3	0.27	mg/Kg dry	27.1	ND	85.9	75-125	1.65	35	
Cadmium	22.6	0.27	mg/Kg dry	27.1	0.314	82.2	75-125	0.440	35	
Nickel	25.1	0.54	mg/Kg dry	27.1	3.80	78.4	75-125	0.866	35	
Selenium	15.6	5.4	mg/Kg dry	27.1	ND	57.3	75-125	2.54	35	MS-07A
Silver	20.7	0.54	mg/Kg dry	27.1	ND	76.3	75-125	0.123	35	
Vanadium	35.9	1.1	mg/Kg dry	27.1	11.1	91.2	75-125	3.22	35	
Zinc	96.3	1.1	mg/Kg dry	27.1	63.7	120	75-125	8.01	35	
Batch B028532 - SW-846 3050B										
Blank (B028532-BLKI)										
		Prepared: 04/06/11 Analyzed: 04/07/11								
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028532 - SW-846 3050B										
LCS (B028532-BS1) Prepared: 04/06/11 Analyzed: 04/07/11										
Antimony	89.8	5.0	mg/Kg wet	121		74.2	30-219			
Arsenic	100	5.0	mg/Kg wet	109		92.2	83.2-117.4			
Barium	312	5.0	mg/Kg wet	325		96.0	83.1-116.9			
Beryllium	85.5	0.50	mg/Kg wet	92.1		92.8	83.7-116.2			
Cadmium	101	0.50	mg/Kg wet	110		91.9	80.7-119.1			
Chromium	86.9	1.0	mg/Kg wet	93.4		93.1	80.6-119.9			
Lead	135	1.5	mg/Kg wet	152		88.6	78.9-121.1			
Nickel	98.4	1.0	mg/Kg wet	109		90.3	81.2-118.3			
Selenium	185	10	mg/Kg wet	207		89.4	79.2-120.3			
Silver	46.5	1.0	mg/Kg wet	51.9		89.6	66.3-133.7			
Thallium	154	5.0	mg/Kg wet	171		90.3	77.8-121.6			
Vanadium	107	2.0	mg/Kg wet	110		97.3	76.8-123.6			
Zinc	275	2.0	mg/Kg wet	299		91.8	81.9-117.7			
LCS (B028532-BS2) Prepared: 04/06/11 Analyzed: 04/07/11										
Lead	0.669	0.75	mg/Kg wet	0.753		88.9	80-120			
LCS Dup (B028532-BSD1) Prepared: 04/06/11 Analyzed: 04/08/11										
Antimony	85.1	5.0	mg/Kg wet	121		70.3	30-219	5.37	30	
Arsenic	95.0	5.0	mg/Kg wet	109		87.2	83.2-117.4	5.63	30	
Barium	267	5.0	mg/Kg wet	325		82.1	83.1-116.9	15.5	30	L-07, Z-01
Beryllium	79.9	0.50	mg/Kg wet	92.1		86.8	83.7-116.2	6.73	30	
Cadmium	98.4	0.50	mg/Kg wet	110		89.4	80.7-119.1	2.76	30	
Chromium	78.4	1.0	mg/Kg wet	93.4		84.0	80.6-119.9	10.3	30	
Lead	123	1.5	mg/Kg wet	152		80.9	78.9-121.1	9.12	30	
Nickel	90.0	1.0	mg/Kg wet	109		82.5	81.2-118.3	8.96	30	
Selenium	174	10	mg/Kg wet	207		83.9	79.2-120.3	6.42	30	
Silver	40.0	1.0	mg/Kg wet	51.9		77.2	66.3-133.7	14.9	30	
Thallium	145	5.0	mg/Kg wet	171		84.8	77.8-121.6	6.27	30	
Vanadium	95.5	2.0	mg/Kg wet	110		86.8	76.8-123.6	11.4	30	
Zinc	254	2.0	mg/Kg wet	299		84.9	81.9-117.7	7.84	30	
Duplicate (B028532-DUP1) Source: 11D0094-12RE1 Prepared: 04/06/11 Analyzed: 04/07/11										
Antimony	ND	2.7	mg/Kg dry			ND		NC	35	
Chromium	9.34	0.54	mg/Kg dry			8.07		14.6	35	
Lead	117	0.81	mg/Kg dry			109		7.46	35	
Thallium	ND	2.7	mg/Kg dry			ND		NC	35	
Duplicate (B028532-DUP2) Source: 11D0094-12RE1 Prepared: 04/06/11 Analyzed: 04/07/11										
Lead	130	4.1	mg/Kg dry			109		17.6	10	Z-01a
Matrix Spike (B028532-MS1) Source: 11D0094-12RE1 Prepared: 04/06/11 Analyzed: 04/07/11										
Antimony	11.5	2.8	mg/Kg dry	27.6		ND	41.7	75-125		MS-07A
Chromium	32.9	0.55	mg/Kg dry	27.6		8.07	90.0	75-125		
Lead	133	0.83	mg/Kg dry	27.6		109	87.8	75-125		
Thallium	21.3	2.8	mg/Kg dry	27.6		ND	77.1	75-125		



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QUALITY CONTROL

Metals Analyzes (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028532 - SW-846 3050B										
Matrix Spike Dup (B028532-MSD1) Source: 11D0094-12RE1 Prepared: 04/06/11 Analyzed: 04/07/11										
Antimony	12.1	2.7	mg/Kg dry	27.4	ND	44.1	75-125	4.60	35	MS-07A
Chromium	38.6	0.55	mg/Kg dry	27.4	8.07	112	75-125	15.9	35	
Lead	166	0.82	mg/Kg dry	27.4	109	207	75-125	21.7	35	MS-22
Thallium	21.5	2.7	mg/Kg dry	27.4	ND	78.7	75-125	1.10	35	



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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B028488 - % Solids										
Duplicate (B028488-DUP3)										
		Source: 11D0094-12			Prepared: 04/06/11		Analyzed: 04/07/11			
% Solids	89.9		% Wt		91.2			1.44	20	
Duplicate (B028488-DUP4)										
		Source: 11D0094-20			Prepared: 04/06/11		Analyzed: 04/07/11			
% Solids	89.7		% Wt		82.9			7.88	20	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - M-07 Result is serial dilution as per MA CAM/ CT RCP regulation.
 - MS-07A Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
 - MS-19 Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
 - MS-22 Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
 - MS-23 Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
 - R-06 Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
 - Z-01 LCS duplicate was reanalyzed. Low recovery is confirmed.
 - Z-01a Serial dilution RPD is outside control limits. Increased variability for reported result cannot be eliminated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C In Soil</i>	
Antimony	CT,NH,NY
Arsenic	CT,NH,NY
Barium	CT,NH,NY
Beryllium	CT,NH,NY
Cadmium	CT,NH,NY
Chromium	CT,NH,NY
Lead	CT,NH,NY,AIHA
Nickel	CT,NH,NY
Selenium	CT,NH,NY
Silver	CT,NH,NY
Thallium	CT,NH,NY
Vanadium	CT,NH,NY
Zinc	CT,NH,NY
<i>SW-846 7471B In Soil</i>	
Mercury	CT,NH,NY
<i>SW-846 8270C In Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
Naphthalene	CT,NY,NH
Phenanthrene	CT,NY,NH
Pyrene	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

11D0094

Company Name: TRC
Address: 65C Suffolk St
Attention: Dave Sullivan
Project # 115058
Telephone: 978-970-5600

Client PO# 115058
Project # 115058
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Project Location: New Bedford
Sampled By: Paul Richards
Email: dsullivan@resolutions.com
Format: PDF EXCEL GIS

Project Proposal Provided? (for billing purposes)
 yes no
Proposal date: _____
Collection: OTHER "Enhanced Data Package"

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix	Lab Code
01	SB-NM-30 (0-1)	4/1/11	1005	X	X	S	
02	SB-NM-30 (1-3)		1010	X	X	S	
03	SB-NM-30 (3-5)		1015	X	X	S	
04	SB-NM-31 (0-1)		1025	X	X	S	
05	SB-NM-31 (1-3)		1030	X	X	S	
06	SB-NM-31 (3-5)		1035	X	X	S	
07	SB-NM-32 (0-1)		1045	X	X	S	
08	SB-NM-32 (1-3)		1050	X	X	S	
09	SB-NM-32 (3-5)		1055	X	X	S	
10	RC-ROW-2 (0-1)		1115	X	X	S	

H1 = HOLD

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: [Signature] Date/Time: 4/1/11 12:50
Received by: [Signature] Date/Time: 4/1/11 14:05
Relinquished by: [Signature] Date/Time: 4/1/11 18:30
Received by: [Signature] Date/Time: 4/1/11 18:30

Turnaround 7-Day 10-Day Other 5 Day
RUSH 24-Hr 48-Hr 72-Hr 140hr
 Require lab approval

Detection Limit Requirements
Massachusetts: _____
Connecticut: _____
Other: _____

ANALYSIS REQUESTED

MCP Metals + Hg
PAHs

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State DW Form Required PWSID # _____

NEELAC & AIHA Certified
WBE/DBE Certified

ACCREDITED BY NEA AIHA

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Company Name: TRC Telephone: 978-970-5600
 Address: 650 Suffolk St Project # 115058
Lansell, MA 01854
 Attention: Dave Sullivan Client PO#
 Project Location: New Bedford DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Sampled By: Zack Richards TASSO FIRE Email: d.sullivan@tasso.com
 Project Proposal Provided? (for billing purposes)
 yes no proposal date

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code	Liq. Code
		Beginning Date/Time	Ending Date/Time				
1	RG-ROW-2 (1-3)	4/1/11	1120	X	X	S	
2	RG-ROW-2 (3-5)		1125	X	X	S	
3	RG-ROW-2 (8-9)		1130	X	X	S	
4	RG-ROW-2 (9-10)		1135	X	X	S	
5	RG-ROW-3 (0-1)		1145	X	X	S	
6	RG-ROW-3 (1-3)		1150	X	X	S	
7	RG-ROW-3 (5-7)		1155	X	X	S	
8	RG-ROW-3 (7-8)		1200	X	X	S	
9	RG-ROW-3 (8-9)		1205	X	X	S	
20	DUP-3		1210	X	X	S	

H = HOLD

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Reinquinshed by (signature) _____ Date/Time: 4/1/11 12:30
 Received by (signature) _____ Date/Time: 4/1/11 14:02
 Reanalyzed by (signature) _____ Date/Time: 4/1/11 18:30
 Turnaround Time (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

Turnaround Time
 7-Day
 10-Day
 Other 5 Day
 24-Hr 148-Hr
 72-Hr 14-Day
 RUSH ¹

Detection Limit Requirements
 Massachusetts: _____
 Connecticut: _____
 Other: _____

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State OW Form Required PWSID # _____

NEIAC & AIHA Certified
 WBE/DBE Certified



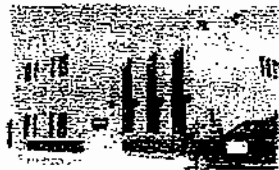
****Matrix Code:**
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

****Preservation**
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 X = Na hydroxide
 T = Na thiosulfate
 O = Other

****Cont. Code:**
 A = amber glass
 G = glass
 P = plastic
 ST = sterile
 V = vial
 S = summa can
 T = tie-dial bag
 O = Other

Dissolved Metals
 Field Filtered
 Lab to Filter

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: SD DATE: 4/4/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples?
 If not, explain: Yes No
- 3) Are all the samples in good condition?
 If not, explain: Yes No
- 4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank: _____ Temperature °C by Temp gun: 2.8

5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"? Yes No Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	22	2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: _____

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 11D0094

Project Location: New Bedford

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11D0094-01 thru 11D0094-20

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Manager

Printed Name: Daren J. Damboragian

Date: 04/14/11



Date: April 18, 2011

NEA PACE Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: NEMASKET LOT
Sampling Date(s): April 01, 2011
NEA Report ID: 11040061
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis - SW-846 8082

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. This report shall not be reproduced, except in full, without the written consent of NEA - A Division of Pace Analytical Services, Inc.

A handwritten signature in black ink that reads "Robert E. Wagner".

Robert E. Wagner
Laboratory Director



Certifications: NY (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

NEA - A Division of Pace Analytical Services | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.nealab.com | Email: information@nealab.com

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CASE NARRATIVE

April 18, 2011

CASE NARRATIVE

This data package (NEA SDG ID: 11040061) consists of 15 soil samples received on 04/07/2011. The samples are from Project Name: NEMASKET LOT.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AO03761	SB-NM-30 0-1'	04/01/2011 10:05
AO03762	SB-NM-30 1-3'	04/01/2011 10:10
AO03763	SB-NM-30 3-5'*	04/01/2011 10:15
AO03764	SB-NM-31 0-1'	04/01/2011 10:25
AO03765	SB-NM-31 1-3'	04/01/2011 10:30
AO03766	SB-NM-31 3-5'*	04/01/2011 10:35
AO03767	SB-NM-32 0-1'	04/01/2011 10:45
AO03768	SB-NM-32 1-3'	04/01/2011 10:50
AO03769	SB-NM-32 3-5'*	04/01/2011 10:55
AO03770	RG-ROW-2 0-1'	04/01/2011 11:15
AO03771	RG-ROW-2 1-3'	04/01/2011 11:20
AO03772	RG-ROW-2 3-5'	04/01/2011 11:25
AO03773	RG-ROW-2 8-9'	04/01/2011 11:30
AO03774	RG-ROW-2 9-10'*	04/01/2011 11:35
AO03775	RG-ROW-3 0-1'	04/01/2011 11:45
AO03776	RG-ROW-3 1-3'	04/01/2011 11:50
AO03777	RG-ROW-3 5-7'	04/01/2011 11:55
AO03778	RG-ROW-3 7-8'	04/01/2011 12:00
AO03779	RG-ROW-3 8-9'*	04/01/2011 12:05
AO03780	DUP-3	04/01/2011 12:10

*Indicates on hold per client request.

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 04/07/2011.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 2.6 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1260 were flagged (AG) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The concentration result for Aroclor 1248 was flagged (PE) to denote that Aroclor 1248 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1248 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (4.) The surrogates DCBP and TCMX were diluted out for (LAB ID: AO03777) due to the high concentration of PCB in the samples. Please see associated Form 2 for details.
- (5.) The surrogates DCBP and TCMX were diluted out for several quality control samples (LAB ID: AO03772M and AO03772K) due to the high concentration of PCB in the samples. Please see associated Form 2 for details.

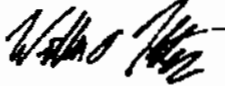
S:\Ums Data\1104\11040061\Package\CN_11040061_Rev00.doc

(6.) All samples (LAB ID: AO03761- 80) including the associated quality control (LAB ID: AO03772B, AO03772L, AO03772M and AO03772K) were re-analyzed due to GC instrument malfunction during the original analysis. Results for the re-analyses are provided with RR1 sample suffix ID.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the RL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



William A. Kotas
Client Services Manager

SAMPLE CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information@nealab.com

PAGE 1 OF 2
 <11040061P1>



DISPOSAL REQUIREMENTS: (To be filled in by Client)

- RETURN TO CLIENT
- DISPOSAL BY NORTHEAST ANALYTICAL
- ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO):		PROJECT/PROJECT NAME:		ENTER ANALYSIS AND METHOD NUMBER REQUESTED					
TRC Environmental		115058 Nemasket PO# 32047		PRESERVATIVE CODE: 0	PRESERVATIVE KEY:				
PROJECT MANAGER:		PROJECT LOCATION (CITY/STATE) ADDRESS:		BOTTLE TYPE: G	0 - NONE				
David Sullivan		New Bedford MA		BOTTLE SIZE: 4 OZ	1 - HCL				
PHONE:		REQUIRED TURN AROUND TIME:		NUMBER OF CONTAINERS PCBS REMARKS:					
978-656-3565 / 617-462-8090		5-day							
SAMPLED BY: (Please Print)		NAME OF CONTAINER (IF USED):							
Jason Fiero / Zack Richards		FedEx 8709-3108-6453							
SAMPLING FIRM:		Data Report: <input type="checkbox"/> CLP* <input type="checkbox"/> Certificates Only							
TRC Environmental		LAB SAMPLE ID (NEA USE ONLY)							
ELECTRONIC RESULTS FORMAT: <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL (.CSV)		GRAB/COMP							
FAXED RESULTS <input type="checkbox"/>		MATRIX							
SAMPLE ID		DATE							
TIME		TIME							
SB-NM-30 0-1'	4/1/11	10:05	S	Grab	A0037101	1	X		
SB-NM-30 1-3'	4/1/11	10:10	S	Grab	A0037102	1	X		
SB-NM-30 3-5'	4/1/11	10:15	S	Grab	A0037103	1	H		HOLD
SB-NM-31 0-1'	4/1/11	10:25	S	Grab	A0037104	1	X		
SB-NM-31 1-3'	4/1/11	10:30	S	Grab	A0037105	1	X		
SB-NM-31 3-5'	4/1/11	10:35	S	Grab	A0037106	1	H		HOLD
SB-NM-32 0-1'	4/1/11	10:45	S	Grab	A0037107	1	X		
SB-NM-32 1-3'	4/1/11	10:50	S	Grab	A0037108	1	X		
SB-NM-32 3-5'	4/1/11	10:55	S	Grab	A0037109	1	H		HOLD
RG-ROW-2 0-1'	4/1/11	11:15	S	Grab	A0037170	1	X		
AMBIENT OR CHILLED		TEMPERATURE		COC TAPE		COC DISCREPANCIES:		RECEIVED BY	
RECEIVED BROKEN OR LEAKING:		Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		SIGNATURE	
RECEIVED BY		SIGNATURE		RECEIVED BY		SIGNATURE		RECEIVED BY	
Jason C. Fiero		FedEx		Jason C. Fiero		K. Daugherty		K. Daugherty	
PRINTED NAME		PRINTED NAME		PRINTED NAME		PRINTED NAME		PRINTED NAME	
Jason Fiero		Jason Fiero		Jason Fiero		K. Daugherty		K. Daugherty	
COMPANY		COMPANY		COMPANY		COMPANY		COMPANY	
TRC		TRC		TRC		PACE		PACE	
DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME	
4/1/11 12:30		4/1/11 10:08		4/1/11 10:08		4/1/11 10:08		4/1/11 10:08	

840404006 FOR 01.00.08 (Revised July 1, 2008)

* CLP LIKE DATA PACKAGE ADDITIONAL COST

CHAIN OF CUSTODY RECORD

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information@nealab.com

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<11040061P2>



DISPOSAL REQUIREMENTS: (To be filled in by Client)

- RETURN TO CLIENT
 - DISPOSAL BY NORTHEAST ANALYTICAL
 - ARCHIVAL BY NORTHEAST ANALYTICAL
- Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO):		PROJECT/PROJECT NAME:		ENTER ANALYSIS AND METHOD NUMBER REQUESTED					
TRC Environmental		115058 Nemasket PO# 32047		PRESERVATIVE CODE: 0	PRESERVATIVE KEY				
PROJECT MANAGER:		PROJECT LOCATION (CITY/STATE) ADDRESS:		BOTTLE TYPE: G	0 - NONE				
David Sullivan		New Bedford MA		BOTTLE SIZE: 4 OZ	1 - HCL				
PHONE:		REQUIRED TURN AROUND TIME:		NUMBER OF CONTAINERS PCBs REMARKS:					
978-656-3565 / 617-462-8090		5-day							
SAMPLED BY: (Please Print)		NAME OF COURIER (IF USED):							
Jason Fiero / Zack Richards		FedEx							
SAMPLING FIRM:		Data Report: <input type="checkbox"/> CLP* <input type="checkbox"/> Certificates Only							
TRC Environmental		LAB SAMPLE ID							
ELECTRONIC RESULTS FORMAT:		GRAB/COMP							
<input type="checkbox"/> PDF <input type="checkbox"/> EXCEL (.CSV) <input type="checkbox"/>		MATRIX							
FAXED RESULTS <input type="checkbox"/> FAX #:		TIME							
		DATE							
RG-ROW-2 1-3'	4/1/11	11:20	S	Grab	A003771	1	X		
RG-ROW-2 3-5'	4/1/11	11:25	S	Grab	A003772	3	X	MS/MSD	
RG-ROW-2 8-9'	4/1/11	11:30	S	Grab	A003773	1	X		
RG-ROW-2 9-10'	4/1/11	11:35	S	Grab	A003774	1	H	HOLD	
RG-ROW-3 0-1'	4/1/11	11:45	S	Grab	A003775	1	X		
RG-ROW-3 1-3'	4/1/11	11:50	S	Grab	A003776	1	X		
RG-ROW-3 5-7'	4/1/11	11:55	S	Grab	A003777	1	X		
RG-ROW-3 7-8'	4/1/11	12:00	S	Grab	A003778	1	X		
RG-ROW-3 8-9'	4/1/11	12:05	S	Grab	A003779	1	H	HOLD	
DUP-3	4/1/11	12:10	S	Grab	A003780	1	X		
AMBIENT OR CHILLED: (Y) (N)		COC TAPE: (Y) (N)		COC DISCREPANCIES: (Y) (N) SEE NOTES		PROPERLY PRESERVED: (Y) (N)		REC'D W/ HOLDING TIMES: (Y) (N)	
RECEIVED BROKEN OR LEAKING: (Y) (N)		TEMP: 26		RECEIVED BY: <i>K. Houghton</i>		SIGNATURE		RELINQUISHED BY: <i>K. Houghton</i>	
SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE	
PRINTED NAME		PRINTED NAME		PRINTED NAME		PRINTED NAME		PRINTED NAME	
COMPANY		COMPANY		COMPANY		COMPANY		COMPANY	
DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME	

* CLP LIKE DATA PACKAGE ADDITIONAL COST

ENVIRONMENTAL FORM 011.01.05 (Revised July 1, 2005)

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Batch ID: 13503

Prep Date: 04/07/11

Prep ID	NEA Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Initial for required Clean Up Steps				Date Conc (M/M/DD)	Comments		
													Date Acid Cleaned (M/M/DD)	Date TBA Cleaned (M/M/DD)	Date Florisil Shake (M/M/DD)	Date Hg Shake (M/M/DD)				
1	130787	PBUK-15	AC03772B	Soil	E PCB S	SOX	N/A	10.066	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
2	130788	LCS-15	AC03772L	Soil	E PCB S	SOX	N/A	10.018	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
3	130777	11040061-01	AC03761	Soil	E PCB S	SOX	42.4	10.281	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
4	130776	11040061-02	AC03762	Soil	E PCB S	SOX	85.5	10.069	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
5	130779	11040061-04	AC03764	Soil	E PCB S	SOX	50.1	10.063	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
6	130780	11040061-06	AC03765	Soil	E PCB S	SOX	84.6	10.067	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
7	130781	11040061-07	AC03767	Soil	E PCB S	SOX	65.1	10.080	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
8	130782	11040061-06	AC03766	Soil	E PCB S	SOX	83.2	10.474	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
9	130783	11040061-10	AC03770	Soil	E PCB S	SOX	72.4	10.197	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
10	130784	11040061-11	AC03771	Soil	E PCB S	SOX	80.0	10.135	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
11	130787	11040061-12	AC03772	Soil	E PCB S	SOX	88.0	10.146	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
12	130785	11040061-12A6	AC03773M	Soil	E PCB S	SOX	88.0	10.412	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
13	130786	11040061-12A5D	AC03773K	Soil	E PCB S	SOX	88.0	10.369	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
14	130788	11040061-13	AC03775	Soil	E PCB S	SOX	81.7	10.304	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
15	130789	11040061-15	AC03775	Soil	E PCB S	SOX	88.1	10.000	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
16	130790	11040061-18	AC03776	Soil	E PCB S	SOX	78.5	10.177	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
17	130791	11040061-17	AC03777	Soil	E PCB S	SOX	72.4	10.250	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
18	130792	11040061-16	AC03775	Soil	E PCB S	SOX	75.5	10.348	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	
19	130793	11040061-20	AC03780	Soil	E PCB S	SOX	78.3	10.411	13:30	08:00	NA	NA	04/11	04/11	04/11	04/11	NA	25	04/11	

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Sulfuric Acid (Main Lab)	E49039	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sodium Sulfate	J24624	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Acetone (Dewar) CURRENT	DD070	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexane (Dewar) [CURRENT]	DC965A	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TBA Solution [current]	122710MLB2P45D	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.5ppm TCMX/5.0ppm DCBP in hexane	011111B029P174A1-10	500	0.5/5.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aroclor 1242 @ 100.0PPM SPIKE	020811B029P001A	1000	100.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aroclor 1242 @ 12.5PPM SPIKE	021011B030P012B	1000	12.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10% Florisil MAIN LAB [current]	032411MLB2P95A	NA	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Analyst Review: *De Sel*

Peer Review: *Tim Holton*

Dan Calabrese

Timothy Holton

PCB SCREEN SHEET

LRF: 11040061

Batch ID: 13503

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or)	Percent Solids	Dry Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
AO03772BRR1	GC18F-1281-4	Soil	04/07/11	10.066	N/A	10.066	25	25	0.013757	1	NA	25x	Jared Acker
	GC18F-1288-4	Soil	04/07/11	10.066	N/A	10.066	25	25	0.013757	1	NA	25x	Jared Acker
AO03772LRR1	GC18B-1281-5	Soil	04/07/11	10.018	N/A	10.018	25	25	0.51227	1	NA	25x	Jared Acker
	GC18F-1288-5	Soil	04/07/11	10.018	N/A	10.018	25	25	0.51227	1	NA	25x	Jared Acker
AO03761RR1	GC18B-1281-6	Soil	04/07/11	10.281	42.4	4.3591	25	250	0.18616	4	1>4	100x	Jared Acker
	GC18F-1288-6	Soil	04/07/11	10.281	42.4	4.3591	25	250	0.18616	4	1>4	100x	Jared Acker
AO03762RR1	GC18B-1281-7	Soil	04/07/11	10.069	85.5	8.6090	25	250	0.0054317	1	NA	25x	Jared Acker
	GC18F-1288-7	Soil	04/07/11	10.069	85.5	8.6090	25	250	0.0054317	1	NA	25x	Jared Acker
AO03764RR1	GC18B-1281-8	Soil	04/07/11	10.063	50.1	5.0416	25	250	0.019966	1	NA	25x	Jared Acker
	GC18F-1288-8	Soil	04/07/11	10.063	50.1	5.0416	25	250	0.019966	1	NA	25x	Jared Acker
AO03765RR1	GC18B-1281-9	Soil	04/07/11	10.067	84.6	8.5167	25	250	0.0058483	1	NA	25x	Jared Acker
	GC18F-1288-9	Soil	04/07/11	10.067	84.6	8.5167	25	250	0.0058483	1	NA	25x	Jared Acker
AO03767RR1	GC18B-1281-10	Soil	04/07/11	10.080	65.1	6.5621	25	250	0.039060	1	NA	25x	Jared Acker
	GC18F-1288-10	Soil	04/07/11	10.080	65.1	6.5621	25	250	0.039060	1	NA	25x	Jared Acker
AO03768RR1	GC18B-1281-11	Soil	04/07/11	10.474	83.2	8.7144	25	250	0.014585	1	NA	25x	Jared Acker
	GC18F-1288-11	Soil	04/07/11	10.474	83.2	8.7144	25	250	0.014585	1	NA	25x	Jared Acker
AO03770RR1	GC18B-1281-12	Soil	04/07/11	10.167	72.4	7.3609	25	250	0.26476	5	1>5	125x	Jared Acker
	GC18F-1288-12	Soil	04/07/11	10.167	72.4	7.3609	25	250	0.26476	5	1>5	125x	Jared Acker
AO03771RR1	GC18B-1281-14	Soil	04/07/11	10.135	80.0	8.1080	25	250	0.089357	2	2>4	50x	Jared Acker
	GC18F-1288-14	Soil	04/07/11	10.135	80.0	8.1080	25	250	0.089357	2	2>4	50x	Jared Acker
AO03772RR1	GC18B-1281-15	Soil	04/07/11	10.146	89.0	8.9285	25	250	0.022339	1	NA	25x	Jared Acker
	GC18F-1288-15	Soil	04/07/11	10.146	89.0	8.9285	25	250	0.022339	1	NA	25x	Jared Acker
AO03772MRR1	GC18B-1281-16	Soil	04/07/11	10.412	89.0	9.1626	25	250	0.50425	10	1>10	250x	Jared Acker
	GC18F-1288-16	Soil	04/07/11	10.412	89.0	9.1626	25	250	0.50425	10	1>10	250x	Jared Acker
AO03772KRR1	GC18B-1281-17	Soil	04/07/11	10.369	88.0	9.1247	25	250	0.48374	10	1>10	250x	Jared Acker
	GC18F-1288-17	Soil	04/07/11	10.369	88.0	9.1247	25	250	0.48374	10	1>10	250x	Jared Acker
AO03773RR1	GC18B-1281-18	Soil	04/07/11	10.304	81.7	8.4184	25	250	0.0097302	1	NA	25x	Jared Acker
	GC18F-1288-18	Soil	04/07/11	10.304	81.7	8.4184	25	250	0.0097302	1	NA	25x	Jared Acker
AO03775RR1	GC18B-1281-19	Soil	04/07/11	10.000	88.1	8.8100	25	250	0.0072166	1	NA	25x	Jared Acker
	GC18F-1288-19	Soil	04/07/11	10.000	88.1	8.8100	25	250	0.0072166	1	NA	25x	Jared Acker
AO03776RR1	GC18B-1281-20	Soil	04/07/11	10.177	78.5	7.9889	25	250	0.21505	4	1>4	100x	Jared Acker
	GC18F-1288-20	Soil	04/07/11	10.177	78.5	7.9889	25	250	0.21505	4	1>4	100x	Jared Acker
AO03777RR1	GC18B-1281-21	Soil	04/07/11	10.258	72.4	7.4253	25	250	0.62189	10	1>10	250x	Jared Acker
	GC18F-1288-21	Soil	04/07/11	10.258	72.4	7.4253	25	250	0.62189	10	1>10	250x	Jared Acker
AO03778RR1	GC18B-1281-22	Soil	04/07/11	10.346	75.5	7.8112	25	250	0.00072835	1	NA	25x	Jared Acker
	GC18F-1288-22	Soil	04/07/11	10.346	75.5	7.8112	25	250	0.00072835	1	NA	25x	Jared Acker
AO03780RR1	GC18B-1281-24	Soil	04/07/11	10.411	78.3	8.1518	25	250	0.13820	3	1>3	75x	Jared Acker

COMMENTS:

Page 1 of 2

LRP: 11040061

Batch ID: 13503

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Percent Solids	Dry Weight (g or mL)	Sat Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
	SC18F-1288-24	Sol	04/07/11	10.411	78.3	8.1518	25	250	0.13620	3	1>3	75X	Jared Ackler

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COMMENTS:

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SURROGATE % RECOVERY SUMMARY

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**2F-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 11040061

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-15RR1	AO03772BRR1	GC18F-1288-4	98.1	115					0
PBLK-15RR1	AO03772BRR1	GC18B-1261-4			91.2	104			0
LCS-15RR1	AO03772LRR1	GC18F-1288-5	95.2	110					0
LCS-15RR1	AO03772LRR1	GC18B-1261-5			89.6	100			0
11040061-01RR1	AO03761RR1	GC18F-1288-6	85.6	106					0
11040061-01RR1	AO03761RR1	GC18B-1261-6			70.1	91.5			0
11040061-02RR1	AO03762RR1	GC18F-1288-7	93.9	112					0
11040061-02RR1	AO03762RR1	GC18B-1261-7			89.1	100			0
11040061-04RR1	AO03764RR1	GC18F-1288-8	92.1	95.0					0
11040061-04RR1	AO03764RR1	GC18B-1261-8			85.9	87.4			0
11040061-05RR1	AO03765RR1	GC18F-1288-9	109	122					0
11040061-05RR1	AO03765RR1	GC18B-1261-9			90.3	102			0
11040061-07RR1	AO03767RR1	GC18F-1288-10	96.5	90.4					0
11040061-07RR1	AO03767RR1	GC18B-1261-10			86.3	86.7			0
11040061-08RR1	AO03768RR1	GC18F-1288-11	98.1	114					0
11040061-08RR1	AO03768RR1	GC18B-1261-11			91.7	98.4			0
11040061-10RR1	AO03770RR1	GC18F-1288-12	94.6	101					0
11040061-10RR1	AO03770RR1	GC18B-1261-12			77.2	92.1			0
11040061-11RR1	AO03771RR1	GC18F-1288-14	89.1	84.2					0
11040061-11RR1	AO03771RR1	GC18B-1261-14			81.4	79.8			0
11040061-12RR1	AO03772RR1	GC18F-1288-15	97.1	68.4					0
11040061-12RR1	AO03772RR1	GC18B-1261-15			95.0	87.1			0
11040061-13RR1	AO03773RR1	GC18F-1288-18	101	106					0
11040061-13RR1	AO03773RR1	GC18B-1261-18			83.7	96.0			0
11040061-15RR1	AO03775RR1	GC18F-1288-19	103	110					0
11040061-15RR1	AO03775RR1	GC18B-1261-19			91.8	97.4			0
11040061-16RR1	AO03776RR1	GC18F-1288-20	85.1	65.3					0
11040061-16RR1	AO03776RR1	GC18B-1261-20			70.3	84.9			0

4

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)
SURR2 = DECACHLOROBIPHENYL (60.0-140)

**2F-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 11040061

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
11040061-17RR1	AO03777RR1	GC18F-1288-21	75.6 D	78.7 D					0
11040061-17RR1	AO03777RR1	GC18B-1261-21			69.1 D	77.8 D			0
11040061-18RR1	AO03778RR1	GC18F-1288-22	93.6	114					0
11040061-16RR1	AO03778RR1	GC18B-1261-22			89.3	98.5			0
11040061-20RR1	AO03780RR1	GC18F-1288-24	89.5	90.0					0
11040061-20RR1	AO03780RR1	GC18B-1261-24			76.9	81.7			0
11040061-12MSRR1	AO03772MRR1	GC18F-1288-16	75.6 D	85.9 D					0
11040061-12MSRR1	AO03772MRR1	GC18B-1261-16			66.6 D	68.6 D			0
11040061-12MSDRR1	AO03772KRR1	GC18F-1288-17	68.7 D	83.4 D					0
11040061-12MSDRR1	AO03772KRR1	GC18B-1261-17			69.1 D	71.3 D			0

4

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)
 SURR2 = DECACHLOROBIPHENYL (60.0-140)

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

5

3F-1
MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078 SDG No: 11040061
 MS LRF ID: 11040061-12MSRR1 MSD LRF ID: 11040061-12MSDRR1 Sample LRF ID: 11040061-12RR1
 MS Lab File ID: GC18F-1288-16 MSD Lab File ID: GC18F-1288-17 Sample File ID: GC18F-1288-15
 MS Sample Inj Date: 04/12/2011 19:32:36 MSD Sample Inj Date: 04/12/2011 20:05:24 Sample Inj Date: 04/12/2011 18:59:48
 MS Lab Sample ID: AO03772MRR1 MSD Lab Sample ID: AO03772KRR1 Sample ID: AO03772RR1

COMPOUND	SPIKE ADDED (ug/g)	SAMPLE CONCENTRATION (ug/g)	MS CONCENTRATION (ug/g)	MS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	10.9	0.00	11.9	109	(70.0-130)

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD PERCENT RECOVERY #	RPD #	QC LIMITS ¹ RPD REC
Aroclor 1242	11.0	12.2	111	1.82	20 (70.0-130)

5

Column to be used to flag recovery values
 * Values outside of QC limits

¹ QC Limits based upon laboratory defaults.
 Spike Recovery: 0 out of 2 outside limits.
 RPD: 0 out of 1 outside limits.

COMMENTS: _____

3F-1
MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078 SDG No: 11040061

MS LRF ID: 11040061-12MSRR1 MSD LRF ID: 11040061-12MSDRR1 Sample LRF ID: 11040061-12RR1

MS Lab File ID: GC18B-1261-16 MSD Lab File ID: GC18B-1261-17 Sample File ID: GC18B-1261-15

MS Sample Inj Date: 04/12/2011 19:32:40 MSD Sample Inj Date: 04/12/2011 20:05:29 Sample Inj Date: 04/12/2011 18:59:52

MS Lab Sample ID: AO03772MRR1 MSD Lab Sample ID: AO03772KRR1 Sample ID: AO03772RR1

COMPOUND	SPIKE ADDED (ug/g)	SAMPLE CONCENTRATION (ug/g)	MS CONCENTRATION (ug/g)	MS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	10.9	0.00	10.9	99.7	(70.0-130)

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD PERCENT RECOVERY #	RPD #	QC LIMITS ¹ RPD REC
Aroclor 1242	11.0	11.0	100	0.300	20 (70.0-130)

5

Column to be used to flag recovery values
 * Values outside of QC limits

¹ QC Limits based upon laboratory defaults.
 Spike Recovery: 0 out of 2 outside limits.
 RPD: 0 out of 1 outside limits.

COMMENTS: _____

LABORATORY CONTROL SPIKE SUMMARY

6

**3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11040061

LCS Lab ID: LCS-15RR1

Blank Sample ID: PBLK-15RR1

LCS File ID: GC18F-1288-5

Method Blank File ID: GC18F-1288-4

LCS Inj Date: 04/12/2011 13:31:51

Method Blank Inj Date: 04/12/2011 12:59:04

LCS ID: AO03772LRR1

Method Blank ID: AD03772BRR1

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.25	1.20	96.4	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: _____

**3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11040061

LCS Lab ID: LCS-15RR1

Blank Sample ID: PBLK-15RR1

LCS File ID: GC18B-1261-5

Method Blank File ID: GC18B-1261-4

LCS Inj Date: 04/12/2011 13:31:56

Method Blank Inj Date: 04/12/2011 12:59:09

LCS ID: AO03772LRR1

Method Blank ID: AO03772BRR1

LCS Matrix: SODIUM SULFATE

Method Blank Matrix: SODIUM SULFATE

COMPOUND	SPIKE ADDED (ug/g)	LCS CONCENTRATION (ug/g)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	1.25	1.16	92.7	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

6

COMMENTS: _____

METHOD BLANK SUMMARY

4C-1
PCB METHOD BLANK SUMMARY

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-15RR1</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AO03772BRR1</u>
Instrument ID: <u>GC18F</u>	Lab File ID: <u>GC18F-1288-4</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>04/07/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>04/12/2011</u>
	Time Analyzed: <u>12:59:04</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-15(LAB CONTROL SPIKE)	AO03772LRR1	GC18F-1288-5	04/12/2011 13:31:51
SB-NM-30 0-1'	AO03761RR1	GC18F-1288-6	04/12/2011 14:04:39
SB-NM-30 1-3'	AO03762RR1	GC18F-1288-7	04/12/2011 14:37:27
SB-NM-31 0-1'	AO03764RR1	GC18F-1288-8	04/12/2011 15:10:15
SB-NM-31 1-3'	AO03765RR1	GC18F-1288-9	04/12/2011 15:43:04
SB-NM-32 0-1'	AO03767RR1	GC18F-1288-10	04/12/2011 16:15:52
SB-NM-32 1-3'	AO03768RR1	GC18F-1288-11	04/12/2011 16:48:39
RG-ROW-2 0-1'	AO03770RR1	GC18F-1288-12	04/12/2011 17:21:26
RG-ROW-2 1-3'	AO03771RR1	GC18F-1288-14	04/12/2011 18:27:00
RG-ROW-2 3-5'	AO03772RR1	GC18F-1288-15	04/12/2011 18:59:48
RG-ROW-2 3-5' MS	AO03772MRR1	GC18F-1288-16	04/12/2011 19:32:36
RG-ROW-2 3-5' MSD	AO03772KRR1	GC18F-1288-17	04/12/2011 20:05:24
RG-ROW-2 8-9'	AO03773RR1	GC18F-1288-18	04/12/2011 20:38:12
RG-ROW-3 0-1'	AO03775RR1	GC18F-1288-19	04/12/2011 21:10:59
RG-ROW-3 1-3'	AO03776RR1	GC18F-1288-20	04/12/2011 21:43:46
RG-ROW-3 5-7'	AO03777RR1	GC18F-1288-21	04/12/2011 22:16:32
RG-ROW-3 7-8'	AO03778RR1	GC18F-1288-22	04/12/2011 22:49:19
DUP-3	AO03780RR1	GC18F-1288-24	04/12/2011 23:54:51

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**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-15RR1</u>
Matrix: <u>SODIUM SULFATE</u>	Method Blank Nea ID No: <u>AO03772BRR1</u>
Instrument ID: <u>GC18B</u>	Lab File ID: <u>GC18B-1261-4</u>
Extraction Type: <u>Soxhlet Method (3540C)</u>	Date Extracted: <u>04/07/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>04/12/2011</u>
	Time Analyzed: <u>12:59:09</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-15(LAB CONTROL SPIKE)	AO03772LRR1	GC18B-1261-5	04/12/2011 13:31:56
SB-NM-30 0-1'	AO03761RR1	GC18B-1261-6	04/12/2011 14:04:44
SB-NM-30 1-3'	AO03762RR1	GC18B-1261-7	04/12/2011 14:37:32
SB-NM-31 0-1'	AO03764RR1	GC18B-1261-8	04/12/2011 15:10:19
SB-NM-31 1-3'	AO03765RR1	GC18B-1261-9	04/12/2011 15:43:06
SB-NM-32 0-1'	AO03767RR1	GC18B-1261-10	04/12/2011 16:15:55
SB-NM-32 1-3'	AO03768RR1	GC18B-1261-11	04/12/2011 16:48:42
RG-ROW-2 0-1'	AO03770RR1	GC18B-1261-12	04/12/2011 17:21:30
RG-ROW-2 1-3'	AO03771RR1	GC18B-1261-14	04/12/2011 18:27:04
RG-ROW-2 3-5'	AO03772RR1	GC18B-1261-15	04/12/2011 18:59:52
RG-ROW-2 3-5' MS	AO03772MRR1	GC18B-1261-16	04/12/2011 19:32:40
RG-ROW-2 3-5' MSD	AO03772KRR1	GC18B-1261-17	04/12/2011 20:05:29
RG-ROW-2 8-9'	AO03773RR1	GC18B-1261-18	04/12/2011 20:38:17
RG-ROW-3 0-1'	AO03775RR1	GC18B-1261-19	04/12/2011 21:11:04
RG-ROW-3 1-3'	AO03776RR1	GC18B-1261-20	04/12/2011 21:43:50
RG-ROW-3 5-7'	AO03777RR1	GC18B-1261-21	04/12/2011 22:16:37
RG-ROW-3 7-8'	AO03778RR1	GC18B-1261-22	04/12/2011 22:49:24
DUP-3	AO03780RR1	GC18B-1261-24	04/12/2011 23:54:56

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SAMPLE ANALYSIS DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>11040061-10RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 0-1'</u>
Sample wt(Dry)/vol:	<u>7.3609 g</u>	Lab Sample ID:	<u>AO03770RR1</u>
Percent Moisture:	<u>27.6</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>5</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-12

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-12

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/G	
1	12674-11-2	Aroclor 1016	0.340	U
1	11104-28-2	Aroclor 1221	0.340	U
1	11141-16-5	Aroclor 1232	0.340	U
1	53469-21-9	Aroclor 1242	0.340	U
1	12672-29-6	Aroclor 1248	0.340	U
1	11097-69-1	Aroclor 1254	10.0	AF
1	11096-82-5	Aroclor 1260	1.61	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (POL). POLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-2 0-1'</u>
LRF Sample ID:	<u>11040061-10RR1</u>	Lab Sample ID:	<u>AO03770RR1</u>
Instrument 1 ID:	<u>GC18F</u>	Instrument 2 ID:	<u>GC18B</u>
Date Analyzed:	<u>04/12/2011 5:21:26 PM</u>	Date Analyzed:	<u>04/12/2011 5:21:30 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC18F-1288-12</u>	Lab File ID 2:	<u>GC18B-1261-12</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1242	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0 5.5

10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-2 0-1'</u>
LRF Sample ID:	<u>11040061-10RR1</u>	Lab Sample ID:	<u>AO03770RR1</u>
Instrument 1 ID:	<u>GC18F</u>	Instrument 2 ID:	<u>GC18B</u>
Date Analyzed:	<u>04/12/2011 5:21:26 PM</u>	Date Analyzed:	<u>04/12/2011 5:21:30 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC18F-1288-12</u>	Lab File ID 2:	<u>GC18B-1261-12</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.99	8.90	9.06			
		2	9.61	9.52	9.68			
		3	10.21	10.12	10.28			
		4	10.41	10.28	10.44			
		5	10.76	10.66	10.82			
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.19	11.10	11.26			
		4	11.41	11.30	11.46			
		5	11.88	11.77	11.93			
Aroclor 1254	1	1	11.06	10.97	11.13			
		2	11.69	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.38	13.28	13.44			
		5	14.17	14.08	14.24	10.0		
	2	1	12.03	11.95	12.11			
		2	12.80	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.55	14.47	14.63			
		5	15.41	15.32	15.48	9.13	9.10	
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.35	16.26	16.42			
		3	17.14	17.05	17.21			
		4	17.82	17.73	17.89			
		5	19.74	19.63	19.79	1.61		
	2	1	15.41	15.33	15.49			
		2	17.63	17.55	17.71			
		3	18.76	18.68	18.84			
		4	19.37	19.29	19.45			
		5	21.89	21.82	21.98	1.39	14.7	

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Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0.5.5

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-11RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 1-3'</u>
Sample wt(Dry)/vol:	<u>8.1080 g</u>	Lab Sample ID:	<u>AO03771RR1</u>
Percent Moisture:	<u>20.0</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>2</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-14

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-14

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.123	U
1	11104-28-2	Aroclor 1221	0.123	U
1	11141-16-5	Aroclor 1232	0.123	U
1	53469-21-9	Aroclor 1242	0.123	U
1	12672-29-6	Aroclor 1248	0.123	U
1	11097-69-1	Aroclor 1254	2.80	AF
1	11096-82-5	Aroclor 1260	0.536	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11040061-11RR1
 Instrument 1 ID: GC18F
 Date Analyzed: 04/12/2011 6:27:00 PM
 GC Column 1: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC18F-1288-14
 Matrix: Soil

SDG No: 11040061
 Client ID: RG-ROW-2 1-3'
 Lab Sample ID: AO03771RR1
 Instrument 2 ID: GC18B
 Date Analyzed: 04/12/2011 6:27:04 PM
 GC Column 2: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC18B-1261-14

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1242	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version 5.055

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11040061
ELAP ID No:	11078	Client ID:	RG-ROW-2 1-3'
LRF Sample ID:	11040061-11RR1	Lab Sample ID:	AO03771RR1
Instrument 1 ID:	GC18F	Instrument 2 ID:	GC18B
Date Analyzed:	04/12/2011 6:27:00 PM	Date Analyzed:	04/12/2011 6:27:04 PM
GC Column 1:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC18F-1288-14	Lab File ID 2:	GC18B-1261-14
Matrix:	Soil		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.99	8.90	9.06			
		2	9.60	9.52	9.68			
		3	10.20	10.12	10.28			
		4	10.41	10.28	10.44			
		5	10.76	10.66	10.82			
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.19	11.10	11.26			
		4	11.40	11.30	11.46			
		5	11.87	11.77	11.93			
Aroclor 1254	1	1	11.06	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.38	13.28	13.44			
		5	14.17	14.08	14.24	2.80		
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.55	14.47	14.63			
		5	15.41	15.32	15.48	2.70	3.64	
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.35	16.26	16.42			
		3	17.14	17.05	17.21			
		4	17.82	17.73	17.89			
		5	19.74	19.63	19.79	0.536		
	2	1	15.41	15.33	15.49			
		2	17.63	17.55	17.71			
		3	18.76	18.68	18.84			
		4	19.37	19.29	19.45			
		5	21.89	21.82	21.98	0.505	5.96	

8

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0.5.5

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-12RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 3-5'</u>
Sample wt(Dry)/vol:	<u>8.9285 g</u>	Lab Sample ID:	<u>AO03772RR1</u>
Percent Moisture:	<u>12.0</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-15

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-15

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
1	12674-11-2	Aroclor 1016	0.0560	U
1	11104-28-2	Aroclor 1221	0.0560	U
1	11141-16-5	Aroclor 1232	0.0560	U
1	53469-21-9	Aroclor 1242	0.0560	U
1	12672-29-6	Aroclor 1248	0.0560	U
1	11097-69-1	Aroclor 1254	0.108	AF
1	11096-82-5	Aroclor 1260	0.0560	U

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-2 3-5</u>
LRF Sample ID: <u>11040061-12RR1</u>	Lab Sample ID: <u>AO03772RR1</u>
Instrument 1 ID: <u>GC18B</u>	Instrument 2 ID: <u>GC18F</u>
Date Analyzed: <u>04/12/2011 6:59:52 PM</u>	Date Analyzed: <u>04/12/2011 6:59:48 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18B-1261-15</u>	Lab File ID 2: <u>GC18F-1288-15</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
	2	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
Aroclor 1221	1	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
	2	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
Aroclor 1232	1	1	NA	7.03	7.19			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
	2	1	NA	6.17	6.33			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
Aroclor 1242	1	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
	2	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lms Version : 5.0.5.5

10-B
PCB Identification Summary

Laboratory Name:	NEA - A Division of PACE	SDG No:	11040061
ELAP ID No:	11078	Client ID:	RG-ROW-2 3-5'
LRF Sample ID:	11040061-12RR1	Lab Sample ID:	AO03772RR1
Instrument 1 ID:	GC18B	Instrument 2 ID:	GC18F
Date Analyzed:	04/12/2011 6:59:52 PM	Date Analyzed:	04/12/2011 6:59:48 PM
GC Column 1:	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm	GC Column 2:	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Lab File ID 1:	GC18B-1261-15	Lab File ID 2:	GC18F-1288-15
Matrix:	Soil		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	9.86	9.78	9.94			
		2	10.59	10.50	10.66			
		3	11.18	11.10	11.26			
		4	11.40	11.30	11.46			
		5	11.85	11.77	11.93			
	2	1	9.00	8.90	9.06			
		2	9.61	9.52	9.68			
		3	10.21	10.12	10.28			
		4	10.40	10.28	10.44			
		5	10.76	10.66	10.82			
Aroclor 1254	1	1	12.03	11.95	12.11			
		2	12.80	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.55	14.47	14.63			
		5	15.41	15.32	15.48	0.108		
	2	1	11.06	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.38	13.28	13.44			
		5	14.17	14.08	14.24	0.106	1.87	
Aroclor 1260	1	1	15.41	15.33	15.49			
		2	17.62	17.55	17.71			
		3	18.76	18.68	18.84			
		4	19.38	19.29	19.45			
		5	21.88	21.82	21.98			
	2	1	14.17	14.08	14.24			
		2	16.35	16.26	16.42			
		3	17.14	17.05	17.21			
		4	17.82	17.73	17.89			
		5	19.73	19.63	19.79			

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-13RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 8-9'</u>
Sample wt(Dry)/vol:	<u>8.4184 g</u>	Lab Sample ID:	<u>AO03773RR1</u>
Percent Moisture:	<u>18.3</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-18

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-18

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.0594	U
1	11104-28-2	Aroclor 1221	0.0594	U
1	11141-16-5	Aroclor 1232	0.0594	U
1	53469-21-9	Aroclor 1242	0.0594	U
1	12672-29-6	Aroclor 1248	0.0594	U
1	11097-69-1	Aroclor 1254	0.163	AF
1	11096-82-5	Aroclor 1260	0.0594	U

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-2 8-9'</u>
LRF Sample ID:	<u>11040061-13RR1</u>	Lab Sample ID:	<u>AO03773RR1</u>
Instrument 1 ID:	<u>GC18F</u>	Instrument 2 ID:	<u>GC18B</u>
Date Analyzed:	<u>04/12/2011 8:38:12 PM</u>	Date Analyzed:	<u>04/12/2011 8:38:17 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC18F-1288-18</u>	Lab File ID 2:	<u>GC18B-1261-18</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1242	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lima Version: 5.0.5.5

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-2 8-9'</u>
LRF Sample ID:	<u>11040061-13RR1</u>	Lab Sample ID:	<u>AO03773RR1</u>
Instrument 1 ID:	<u>GC18F</u>	Instrument 2 ID:	<u>GC18B</u>
Date Analyzed:	<u>04/12/2011 8:38:12 PM</u>	Date Analyzed:	<u>04/12/2011 8:38:17 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC18F-1288-18</u>	Lab File ID 2:	<u>GC18B-1261-18</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	9.00	8.90	9.06			
		2	9.61	9.52	9.68			
		3	10.20	10.12	10.28			
		4	10.40	10.28	10.44			
		5	10.76	10.66	10.82			
	2	1	9.84	9.78	9.94			
		2	10.59	10.50	10.66			
		3	11.19	11.10	11.26			
		4	11.41	11.30	11.46			
		5	11.85	11.77	11.93			
Aroclor 1254	1	1	11.06	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.37	13.28	13.44			
		5	14.17	14.08	14.24	0.163		
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.54	14.47	14.63			
		5	15.41	15.32	15.48	0.150	8.31	
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.34	16.26	16.42			
		3	17.14	17.05	17.21			
		4	NA	17.73	17.89			
		5	NA	19.63	19.79			
	2	1	15.41	15.33	15.49			
		2	17.62	17.55	17.71			
		3	18.74	18.68	18.84			
		4	19.40	19.29	19.45			
		5	21.87	21.82	21.98			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PAGE)

Print Date: 4/18/2011
Lims Version : 5.0.5.5

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-15RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-3 0-1'</u>
Sample wt(Dry)/vol:	<u>8.8100 g</u>	Lab Sample ID:	<u>AO03775RR1</u>
Percent Moisture:	<u>11.9</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-19

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-19

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	Q
			UG/G	
1	12674-11-2	Aroclor 1016	0.0568	U
1	11104-28-2	Aroclor 1221	0.0568	U
1	11141-16-5	Aroclor 1232	0.0568	U
1	53469-21-9	Aroclor 1242	0.0568	U
1	12672-29-6	Aroclor 1248	0.0568	U
1	11097-69-1	Aroclor 1254	0.196	AF
1	11096-82-5	Aroclor 1260	0.0568	U

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 U - Omnes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-3 0-1'</u>
LRF Sample ID: <u>11040061-15RR1</u>	Lab Sample ID: <u>AO03775RR1</u>
Instrument 1 ID: <u>GC18B</u>	Instrument 2 ID: <u>GC18F</u>
Date Analyzed: <u>04/12/2011 9:11:04 PM</u>	Date Analyzed: <u>04/12/2011 9:10:59 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18B-1261-19</u>	Lab File ID 2: <u>GC18F-1288-19</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
	2	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
Aroclor 1221	1	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
	2	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
Aroclor 1232	1	1	NA	7.03	7.19			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
	2	1	NA	6.17	6.33			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
Aroclor 1242	1	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
	2	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0.5.5

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11040061-15RR1
 Instrument 1 ID: GC18B
 Date Analyzed: 04/12/2011 9:11:04 PM
 GC Column 1: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC18B-1261-19
 Matrix: Soil

SDG No: 11040061
 Client ID: RG-ROW-3 0-1'
 Lab Sample ID: AO03775RR1
 Instrument 2 ID: GC18F
 Date Analyzed: 04/12/2011 9:10:59 PM
 GC Column 2: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC18F-1288-19

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.19	11.10	11.26			
		4	11.40	11.30	11.46			
		5	11.87	11.77	11.93			
	2	1	8.98	8.90	9.06			
		2	9.60	9.52	9.68			
		3	10.21	10.12	10.28			
		4	10.40	10.28	10.44			
		5	10.76	10.66	10.82			
Aroclor 1254	1	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.54	14.47	14.63			
		5	15.40	15.32	15.48	0.196		
	2	1	11.06	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.37	13.28	13.44			
		5	14.17	14.08	14.24	0.192	2.06	
Aroclor 1260	1	1	15.40	15.33	15.49			
		2	17.63	17.55	17.71			
		3	18.76	18.68	18.84			
		4	19.38	19.29	19.45			
		5	21.88	21.82	21.98			
	2	1	14.17	14.08	14.24			
		2	16.34	16.26	16.42			
		3	17.13	17.05	17.21			
		4	17.82	17.73	17.89			
		5	19.71	19.63	19.79			

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-16RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-3 1-3'</u>
Sample wt(Dry)/vol:	<u>7.9889 g</u>	Lab Sample ID:	<u>AO03776RR1</u>
Percent Moisture:	<u>21.5</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>4</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-20

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-20

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.250	U
1	11104-28-2	Aroclor 1221	0.250	U
1	11141-16-5	Aroclor 1232	0.250	U
1	53469-21-9	Aroclor 1242	0.250	U
2	12672-29-6	Aroclor 1248	2.48	PE
1	11097-69-1	Aroclor 1254	6.24	AF
1	11096-82-5	Aroclor 1260	1.24	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 PE-Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-3 1-3'</u>
LRF Sample ID: <u>11040061-16RR1</u>	Lab Sample ID: <u>AO03776RR1</u>
Instrument 1 ID: <u>GC18F</u>	Instrument 2 ID: <u>GC18B</u>
Date Analyzed: <u>04/12/2011 9:43:46 PM</u>	Date Analyzed: <u>04/12/2011 9:43:50 PM</u>
GC Column 1: <u>Phenomenex, Zebtron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebtron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18F-1288-20</u>	Lab File ID 2: <u>GC18B-1261-20</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	7.94	7.87	8.03			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	5.95	5.86	6.02			
		4	6.13	6.06	6.22			
		5	6.26	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	6.78	6.71	6.87			
		4	6.98	6.91	7.07			
		5	7.10	7.03	7.19			
Aroclor 1232	1	1	6.26	6.17	6.33			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	7.10	7.03	7.19			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1242	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	7.94	7.87	8.03			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0.5.5

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>RG-ROW-3 1-3'</u>
LRF Sample ID:	<u>11040061-16RR1</u>	Lab Sample ID:	<u>AO03776RR1</u>
Instrument 1 ID:	<u>GC18F</u>	Instrument 2 ID:	<u>GC18B</u>
Date Analyzed:	<u>04/12/2011 9:43:46 PM</u>	Date Analyzed:	<u>04/12/2011 9:43:50 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC18F-1288-20</u>	Lab File ID 2:	<u>GC18B-1261-20</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.98	8.90	9.06			
		2	9.60	9.52	9.68			
		3	10.20	10.12	10.28			
		4	10.40	10.28	10.44			
		5	10.75	10.66	10.82	2.05		
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.18	11.10	11.26			
		4	11.39	11.30	11.46			
		5	11.85	11.77	11.93	2.48	19.0	
Aroclor 1254	1	1	11.05	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.37	13.28	13.44			
		5	14.17	14.08	14.24	6.24		
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.07	13.00	13.16			
		4	14.54	14.47	14.63			
		5	15.40	15.32	15.48	5.43	13.9	
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.34	16.26	16.42			
		3	17.13	17.05	17.21			
		4	17.81	17.73	17.89			
		5	19.72	19.63	19.79	1.24		
	2	1	15.40	15.33	15.49			
		2	17.62	17.55	17.71			
		3	18.75	18.68	18.84			
		4	19.36	19.29	19.45			
		5	21.87	21.82	21.98	1.08	13.8	

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>11040061-17RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-3 5-7</u>
Sample wt(Dry)/vol:	<u>7.4253 g</u>	Lab Sample ID:	<u>AO03777RR1</u>
Percent Moisture:	<u>27.6</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>10</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC18F-1288-21

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC18B-1261-21

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.673	U
1	11104-28-2	Aroclor 1221	0.673	U
1	11141-16-5	Aroclor 1232	0.673	U
1	53469-21-9	Aroclor 1242	0.673	U
1	12672-29-6	Aroclor 1248	0.673	U
1	11097-69-1	Aroclor 1254	25.1	AF
1	11096-82-5	Aroclor 1260	3.42	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-3 5-7</u>
LRF Sample ID: <u>11040061-17RR1</u>	Lab Sample ID: <u>AO03777RR1</u>
Instrument 1 ID: <u>GC18F</u>	Instrument 2 ID: <u>GC18B</u>
Date Analyzed: <u>04/12/2011 10:16:32 PM</u>	Date Analyzed: <u>04/12/2011 10:16:37 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18F-1288-21</u>	Lab File ID 2: <u>GC18B-1261-21</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.15	7.06	7.22			
		2	7.53	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.18	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	7.53	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.18	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1242	1	1	7.15	7.06	7.22			
		2	7.53	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.18	9.09	9.25			
		5	9.35	9.27	9.43			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0.5.5

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-3 5-7'</u>
LRF Sample ID: <u>11040061-17RR1</u>	Lab Sample ID: <u>AO03777RR1</u>
Instrument 1 ID: <u>GC18F</u>	Instrument 2 ID: <u>GC18B</u>
Date Analyzed: <u>04/12/2011 10:16:32 PM</u>	Date Analyzed: <u>04/12/2011 10:16:37 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18F-1288-21</u>	Lab File ID 2: <u>GC18B-1261-21</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.99	8.90	9.06			
		2	9.60	9.52	9.68			
		3	10.20	10.12	10.28			
		4	10.40	10.28	10.44			
		5	10.75	10.66	10.82			
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.18	11.10	11.26			
		4	11.40	11.30	11.46			
		5	11.87	11.77	11.93			
Aroclor 1254	1	1	11.05	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.38	13.28	13.44			
		5	14.17	14.08	14.24	25.1		
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.54	14.47	14.63			
		5	15.40	15.32	15.48	23.7	5.74	
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.34	16.26	16.42			
		3	17.13	17.05	17.21			
		4	17.81	17.73	17.89			
		5	19.72	19.63	19.79	3.42		
	2	1	15.40	15.33	15.49			
		2	17.62	17.55	17.71			
		3	18.75	18.68	18.84			
		4	19.36	19.29	19.45			
		5	21.89	21.82	21.98	2.89	16.8	

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-18RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-3 7-8'</u>
Sample wt(Dry)/vol:	<u>7.8112 g</u>	Lab Sample ID:	<u>AO03778RR1</u>
Percent Moisture:	<u>24.5</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC18F-1288-22

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC18B-1261-22

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.0640	U
1	11104-28-2	Aroclor 1221	0.0640	U
1	11141-16-5	Aroclor 1232	0.0640	U
1	53469-21-9	Aroclor 1242	0.0640	U
1	12672-29-6	Aroclor 1248	0.0640	U
1	11097-69-1	Aroclor 1254	0.0640	U
1	11096-82-5	Aroclor 1260	0.0640	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>11040061-20RR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>DUP-3</u>
Sample wt(Dry)/vol:	<u>8.1518 g</u>	Lab Sample ID:	<u>AO03780RR1</u>
Percent Moisture:	<u>21.7</u>	Date Received:	<u>04/07/2011</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Extracted:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>3</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18F-1288-24

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC18B-1261-24

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/G	Q
1	12674-11-2	Aroclor 1016	0.184	U
1	11104-28-2	Aroclor 1221	0.184	U
1	11141-16-5	Aroclor 1232	0.184	U
1	53469-21-9	Aroclor 1242	0.184	U
1	12672-29-6	Aroclor 1248	0.184	U
1	11097-69-1	Aroclor 1254	4.04	AF
1	11096-82-5	Aroclor 1260	0.818	AG

Laboratory Qualifiers:

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 AG-Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11040061-20RR1
 Instrument 1 ID: GC18F
 Date Analyzed: 04/12/2011 11:54:51 PM
 GC Column 1: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC18F-1288-24
 Matrix: Soil

SDG No: 11040061
 Client ID: DUP-3
 Lab Sample ID: AO03780RR1
 Instrument 2 ID: GC18B
 Date Analyzed: 04/12/2011 11:54:56 PM
 GC Column 2: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC18B-1261-24

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			
Aroclor 1242	1	1	NA	7.06	7.22			
		2	NA	7.43	7.59			
		3	NA	8.02	8.18			
		4	NA	8.22	8.38			
		5	NA	8.35	8.51			
	2	1	NA	7.87	8.03			
		2	NA	8.27	8.43			
		3	NA	8.87	9.03			
		4	NA	9.09	9.25			
		5	NA	9.27	9.43			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.055

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10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11040061-20RR1
 Instrument 1 ID: GC18F
 Date Analyzed: 04/12/2011 11:54:51 PM
 GC Column 1: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC18F-1288-24
 Matrix: Soil

SDG No: 11040061
 Client ID: DUP-3
 Lab Sample ID: AO03780RR1
 Instrument 2 ID: GC18B
 Date Analyzed: 04/12/2011 11:54:56 PM
 GC Column 2: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC18B-1261-24

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.99	8.90	9.06			
		2	9.60	9.52	9.68			
		3	10.21	10.12	10.28			
		4	10.40	10.28	10.44			
		5	10.76	10.66	10.82			
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.18	11.10	11.26			
		4	11.41	11.30	11.46			
		5	11.87	11.77	11.93			
Aroclor 1254	1	1	11.05	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.37	13.28	13.44			
		5	14.17	14.08	14.24	4.04		
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.54	14.47	14.63			
		5	15.40	15.32	15.48	3.66	9.87	
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.35	16.26	16.42			
		3	17.13	17.05	17.21			
		4	17.81	17.73	17.89			
		5	19.72	19.63	19.79	0.818		
	2	1	15.40	15.33	15.49			
		2	17.62	17.55	17.71			
		3	18.75	18.68	18.84			
		4	19.36	19.29	19.45			
		5	21.88	21.82	21.98	0.723	12.3	

8

ANALYTICAL SEQUENCE (GC18F)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11040061

ELAP ID No: 11078

Instrument ID: GC18F

Init. Calib. Date(s): 02/18/11,02/19/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.55</u>			DCBP RT: <u>23.56</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
01	A1016 20 PPB	021816A	GC18F-1258-3	02/18/2011 15:27:29	
02	A1016 100 PPB	021816B	GC18F-1258-4	02/18/2011 16:00:17	
03	A1016 250 PPB	021816C	GC18F-1258-5	02/18/2011 16:33:05	
04	A1016 500 PPB	021816D	GC18F-1258-6	02/18/2011 17:05:53	
05	A1016 1000 PPB	021816E	GC18F-1258-7	02/18/2011 17:38:42	
06	A1221 20 PPB	021821A	GC18F-1258-8	02/18/2011 18:11:30	
07	A1221 100 PPB	021821B	GC18F-1258-9	02/18/2011 18:44:19	
08	A1221 250 PPB	021821C	GC18F-1258-10	02/18/2011 19:17:07	
09	A1221 500 PPB	021821D	GC18F-1258-11	02/18/2011 19:49:54	
10	A1221 1000 PPB	021821E	GC18F-1258-12	02/18/2011 20:22:42	
11	A1232 20 PPB	021832A	GC18F-1258-13	02/18/2011 20:55:29	
12	A1232 100 PPB	021832B	GC18F-1258-14	02/18/2011 21:28:18	
13	A1232 250 PPB	021832C	GC18F-1258-15	02/18/2011 22:01:07	
14	A1232 500 PPB	021832D	GC18F-1258-16	02/18/2011 22:33:55	
15	A1232 1000 PPB	021832E	GC18F-1258-17	02/18/2011 23:06:43	
16	A1242 20 PPB	021842A	GC18F-1258-18	02/18/2011 23:39:31	
17	A1242 100 PPB	021842B	GC18F-1258-19	02/19/2011 00:12:18	
18	A1242 250 PPB	021842C	GC18F-1258-20	02/19/2011 00:45:05	
19	A1242 500 PPB	021842D	GC18F-1258-21	02/19/2011 01:17:53	
20	A1242 1000 PPB	021842E	GC18F-1258-22	02/19/2011 01:50:40	
21	A1248 20 PPB	021848A	GC18F-1258-23	02/19/2011 02:23:28	
22	A1248 100 PPB	021848B	GC18F-1258-24	02/19/2011 02:56:16	
23	A1248 250 PPB	021848C	GC18F-1258-25	02/19/2011 03:29:05	
24	A1248 500 PPB	021848D	GC18F-1258-26	02/19/2011 04:01:53	
25	A1248 1000 PPB	021848E	GC18F-1258-27	02/19/2011 04:34:41	
26	A1254 100 PPB	021854B	GC18F-1258-28	02/19/2011 05:07:29	5.56
27	A1254 20 PPB	021854A	GC18F-1258-29	02/19/2011 05:40:17	5.56
28	A1254 250 PPB	021854C	GC18F-1258-30	02/19/2011 06:13:05	5.55
29	A1254 500 PPB	021854D	GC18F-1258-31	02/19/2011 06:45:52	5.55
30	A1254 1000 PPB	021854E	GC18F-1258-32	02/19/2011 07:18:39	5.55
31	A1260 20 PPB	021860A	GC18F-1258-33	02/19/2011 07:51:27	
32	A1260 100 PPB	021860B	GC18F-1258-34	02/19/2011 08:24:15	
33	A1260 250 PPB	021860C	GC18F-1258-35	02/19/2011 08:57:03	
34	A1260 500 PPB	021860D	GC18F-1258-36	02/19/2011 09:29:51	
35	A1260 1000 PPB	021860E	GC18F-1258-37	02/19/2011 10:02:37	
36	A1262 20 PPB	021862A	GC18F-1258-38	02/19/2011 10:35:24	
37	A1262 100 PPB	021862B	GC18F-1258-39	02/19/2011 11:08:11	
38	A1262 250 PPB	021862C	GC18F-1258-40	02/19/2011 11:40:58	

Column used to flag surrogate retention times outside expected range.

9

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11040061

ELAP ID No: 11078

Instrument ID: GC18F

Init. Calib. Date(s): 02/18/11,02/19/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.55</u>			DCBP RT: <u>23.56</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	021862D	GC18F-1258-41	02/19/2011 12:13:45	
40	A1262 1000 PPB	021862E	GC18F-1258-42	02/19/2011 12:46:34	
41	A1268 20 PPB	021868A	GC18F-1258-43	02/19/2011 13:19:21	
42	A1268 100 PPB	021868B	GC18F-1258-44	02/19/2011 13:52:08	
43	A1268 250 PPB	021868C	GC18F-1258-45	02/19/2011 14:24:56	
44	A1268 500 PPB	021868D	GC18F-1258-46	02/19/2011 14:57:43	
45	A1268 1000 PPB	021868E	GC18F-1258-47	02/19/2011 15:30:30	
46	A1016 500 PPB	CS160218A	GC18F-1258-49	02/19/2011 16:36:04	5.55
47	A1221 500 PPB	CS210218A	GC18F-1258-50	02/19/2011 17:08:52	5.55
48	A1232 500 PPB	CS320218A	GC18F-1258-51	02/19/2011 17:41:40	5.55
49	A1242 500 PPB	CS420218A	GC18F-1258-52	02/19/2011 18:14:27	5.55
50	A1248 500 PPB	CS480218A	GC18F-1258-53	02/19/2011 18:47:14	5.55
51	A1254 500 PPB	CS540218A	GC18F-1258-54	02/19/2011 19:20:01	5.55
52	A1260 500 PPB	CS600218A	GC18F-1258-55	02/19/2011 19:52:48	5.55
53	A1262 500 PPB	CS620218A	GC18F-1258-56	02/19/2011 20:25:35	5.55
54	A1268 500 PPB	CS680218A	GC18F-1258-57	02/19/2011 20:58:22	5.55
55	A1016 500 PPB	CS160412A	GC18F-1288-3	04/12/2011 12:26:16	5.56
56	PBLK-15(METHOD BLANK)	AO03772BRR1	GC18F-1288-4	04/12/2011 12:59:04	5.56
57	LCS-15(LAB CONTROL SPIKE)	AO03772LRR1	GC18F-1288-5	04/12/2011 13:31:51	5.55
58	SB-NM-30 0-1'	AO03761RR1	GC18F-1288-6	04/12/2011 14:04:39	5.56
59	SB-NM-30 1-3'	AO03762RR1	GC18F-1288-7	04/12/2011 14:37:27	5.56
60	SB-NM-31 0-1'	AO03764RR1	GC18F-1288-8	04/12/2011 15:10:15	5.56
61	SB-NM-31 1-3'	AO03765RR1	GC18F-1288-9	04/12/2011 15:43:04	5.56
62	SB-NM-32 0-1'	AO03767RR1	GC18F-1288-10	04/12/2011 16:15:52	5.56
63	SB-NM-32 1-3'	AO03768RR1	GC18F-1288-11	04/12/2011 16:48:39	5.56
64	RG-ROW-2 0-1'	AO03770RR1	GC18F-1288-12	04/12/2011 17:21:26	5.56
65	A1221 500 PPB	CS210412A	GC18F-1288-13	04/12/2011 17:54:13	5.55
66	RG-ROW-2 1-3'	AO03771RR1	GC18F-1288-14	04/12/2011 18:27:00	5.56
67	RG-ROW-2 3-5'	AO03772RR1	GC18F-1288-15	04/12/2011 18:59:48	5.56
68	RG-ROW-2 3-5' MS	AO03772MRR1	GC18F-1288-16	04/12/2011 19:32:36	5.56(D)
69	RG-ROW-2 3-5' MSD	AO03772KRR1	GC18F-1288-17	04/12/2011 20:05:24	5.56(D)
70	RG-ROW-2 8-9'	AO03773RR1	GC18F-1288-18	04/12/2011 20:38:12	5.56
71	RG-ROW-3 0-1'	AO03775RR1	GC18F-1288-19	04/12/2011 21:10:59	5.56
72	RG-ROW-3 1-3'	AO03776RR1	GC18F-1288-20	04/12/2011 21:43:46	5.55
73	RG-ROW-3 5-7'	AO03777RR1	GC18F-1288-21	04/12/2011 22:16:32	5.56(D)
74	RG-ROW-3 7-8'	AO03778RR1	GC18F-1288-22	04/12/2011 22:49:19	5.56
75	A1232 500 PPB	CS320412A	GC18F-1288-23	04/12/2011 23:22:05	5.56
76	DUP-3	AO03780RR1	GC18F-1288-24	04/12/2011 23:54:51	5.56

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 4/18/2011
Lims Version : 5.0.55

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11040061

ELAP ID No: 11078

Instrument ID: GC18F

Init. Calib. Date(s): 02/18/11,02/19/11

GC Column (1): Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>5.55</u>			DCBP RT: <u>23.56</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
77 A1242 500 PPB	CS420412A	GC18F-1288-25	04/13/2011 00:27:37	5.56	23.56

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

INITIAL CALIBRATION DATA (GC18F)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC18F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11040061
 Date(s) Analyzed: 02/18/11, 02/19/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC18F-1258-3	021816A	20.0	97.337		
	GC18F-1258-4	021816B	100	97.340		
	GC18F-1258-5	021816C	250	89.550		
	GC18F-1258-6	021616D	500	85.359		
	GC18F-1258-7	021816E	1000	83.486	90.615	7.2
Aroclor 1221	GC18F-1258-8	021821A	20.0	24.684		
	GC18F-1258-9	021821B	100	25.908		
	GC18F-1258-10	021821C	250	23.065		
	GC18F-1258-11	021821D	500	22.803		
	GC18F-1258-12	021821E	1000	22.294	23.751	6.3
Aroclor 1232	GC18F-1258-13	021832A	20.0	35.991		
	GC18F-1258-14	021832B	100	37.948		
	GC18F-1258-15	021832C	250	42.246		
	GC18F-1258-16	021832D	500	40.005		
	GC18F-1258-17	021832E	1000	38.417	38.921	6.0
Aroclor 1242	GC18F-1258-18	021842A	20.0	78.418		
	GC18F-1258-19	021842B	100	74.468		
	GC18F-1258-20	021842C	250	80.403		
	GC18F-1258-21	021842D	500	75.044		
	GC18F-1258-22	021842E	1000	72.787	76.224	4.1
Aroclor 1248	GC18F-1258-23	021848A	20.0	73.984		
	GC18F-1258-24	021848B	100	81.034		
	GC18F-1258-25	021848C	250	72.963		
	GC18F-1258-26	021848D	500	74.917		
	GC18F-1258-27	021848E	1000	78.214	76.222	4.4
Aroclor 1254	GC18F-1258-29	021854A	20.0	137.919		
	GC18F-1258-28	021854B	100	128.768		
	GC18F-1258-30	021854C	250	120.550		
	GC18F-1258-31	021854D	500	109.684		
	GC18F-1258-32	021854E	1000	112.066	121.397	9.5
Aroclor 1260	GC18F-1258-33	021860A	20.0	157.476		
	GC18F-1258-34	021860B	100	150.448		
	GC18F-1258-35	021860C	250	150.667		
	GC18F-1258-36	021860D	500	153.169		
	GC18F-1258-37	021860E	1000	163.165	154.985	3.5
Aroclor 1262	GC18F-1258-38	021862A	20.0	205.010		
	GC18F-1258-39	021862B	100	183.439		
	GC18F-1258-40	021862C	250	165.135		
	GC18F-1258-41	021862D	500	151.542		
	GC18F-1258-42	021862E	1000	159.024	172.830	12

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC18F
 GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11040061
 Date(s) Analyzed: 02/18/11,02/19/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC18F-1258-43	021868A	20.0	306.041		
	GC18F-1258-44	021868B	100	292.961		
	GC18F-1258-45	021868C	250	282.884		
	GC18F-1258-46	021868D	500	282.322		
	GC18F-1258-47	021868E	1000	273.172	287.476	4.4
TCMX	GC18F-1258-29	021854A	2.00	512.712		
	GC18F-1258-28	021854B	5.00	519.377		
	GC18F-1258-30	021854C	8.00	490.084		
	GC18F-1258-31	021854D	10.0	460.195		
	GC18F-1258-32	021854E	20.0	459.121	488.298	5.8
DCBP	GC18F-1258-29	021854A	20.0	518.186		
	GC18F-1258-28	021854B	50.0	496.995		
	GC18F-1258-30	021854C	80.0	472.779		
	GC18F-1258-31	021854D	100	434.479		
	GC18F-1258-32	021854E	200	435.211	471.530	7.9

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

INITIAL/CONTINUING CALIBRATION DATA (GC18F)

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SDG NO: 11040061

ELAP ID No: 11078

Instrument ID: GC18F

GC Column: Phenomenax, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC18F-1258-49	CS160218A	ICV	533	500	6.52	02/19/2011 16:36:04
Aroclor 1221	GC18F-1258-50	CS210218A	ICV	536	500	7.20	02/19/2011 17:08:52
Aroclor 1232	GC18F-1258-51	CS320218A	ICV	497	500	-0.611	02/19/2011 17:41:40
Aroclor 1242	GC18F-1258-52	CS420218A	ICV	451	500	-9.78	02/19/2011 18:14:27
Aroclor 1248	GC18F-1258-53	CS480218A	ICV	467	500	-6.59	02/19/2011 18:47:14
Aroclor 1254	GC18F-1258-54	CS540218A	ICV	529	500	5.87	02/19/2011 19:20:01
Aroclor 1260	GC18F-1258-55	CS600218A	ICV	445	500	-11.1	02/19/2011 19:52:48
Aroclor 1262	GC18F-1258-56	CS620218A	ICV	524	500	4.89	02/19/2011 20:25:35
Aroclor 1268	GC18F-1258-57	CS680218A	ICV	459	500	-8.16	02/19/2011 20:58:22
Aroclor 1016	GC18F-1288-3	CS160412A	CCV	509	500	1.72	04/12/2011 12:26:16
Aroclor 1221	GC18F-1288-13	CS210412A	CCV	508	500	1.59	04/12/2011 17:54:13
Aroclor 1232	GC18F-1288-23	CS320412A	CCV	520	500	4.04	04/12/2011 23:22:05
Aroclor 1242	GC18F-1288-25	CS420412A	CCV	470	500	-6.02	04/13/2011 00:27:37

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11040061

ELAP ID No: 11076

Instrument ID: GC16F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC18F-1258-49	CS160218A	ICV	1	7.14	7.06	7.22
		CS160218A	ICV	2	7.51	7.43	7.59
		CS160218A	ICV	3	8.10	8.02	8.18
		CS160218A	ICV	4	8.30	8.22	8.38
		CS160218A	ICV	5	8.43	8.35	8.51
Aroclor 1221	GC18F-1258-50	CS210218A	ICV	1	4.19	4.11	4.27
		CS210218A	ICV	2	5.40	5.32	5.48
		CS210218A	ICV	3	5.94	5.86	6.02
		CS210218A	ICV	4	6.14	6.06	6.22
		CS210218A	ICV	5	6.26	6.18	6.34
Aroclor 1232	GC18F-1258-51	CS320218A	ICV	1	6.25	6.17	6.33
		CS320218A	ICV	2	7.51	7.43	7.59
		CS320218A	ICV	3	8.10	8.02	8.18
		CS320218A	ICV	4	8.30	8.22	8.38
		CS320218A	ICV	5	8.43	8.35	8.51
Aroclor 1242	GC18F-1258-52	CS420218A	ICV	1	7.14	7.06	7.22
		CS420218A	ICV	2	7.51	7.43	7.59
		CS420218A	ICV	3	8.10	8.02	8.18
		CS420218A	ICV	4	8.30	8.22	8.38
		CS420218A	ICV	5	8.43	8.35	8.51
Aroclor 1248	GC18F-1258-53	CS480218A	ICV	1	8.98	8.90	9.06
		CS480218A	ICV	2	9.60	9.52	9.68
		CS480218A	ICV	3	10.20	10.12	10.28
		CS480218A	ICV	4	10.36	10.28	10.44
		CS480218A	ICV	5	10.74	10.66	10.82
Aroclor 1254	GC18F-1258-54	CS540218A	ICV	1	11.05	10.97	11.13
		CS540218A	ICV	2	11.67	11.59	11.75
		CS540218A	ICV	3	11.94	11.86	12.02
		CS540218A	ICV	4	13.36	13.28	13.44
		CS540218A	ICV	5	14.16	14.08	14.24
Aroclor 1260	GC18F-1258-55	CS600218A	ICV	1	14.16	14.08	14.24
		CS600216A	ICV	2	16.34	16.26	16.42
		CS600218A	ICV	3	17.13	17.05	17.21
		CS800218A	ICV	4	17.81	17.73	17.89
		CS600218A	ICV	5	19.71	19.63	19.79
Aroclor 1262	GC18F-1258-56	CS620218A	ICV	1	14.16	14.08	14.24
		CS620218A	ICV	2	16.33	16.25	16.41
		CS620218A	ICV	3	17.12	17.04	17.20

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11040061

ELAP ID No: 11078

Instrument ID: GC18F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620218A	ICV	4	17.80	17.72	17.88
		CS620218A	ICV	5	19.71	19.63	19.79
Aroclor 1268	GC18F-1258-57	CS680218A	ICV	1	17.81	17.73	17.89
		CS680218A	ICV	2	19.71	19.63	19.79
		CS680218A	ICV	3	17.61	17.53	17.69
		CS680218A	ICV	4	18.93	18.85	19.01
		CS680218A	ICV	5	19.25	19.17	19.33

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11040061

ELAP ID No: 11078

Instrument ID: GC18F

GC Column: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC18F-1288-3	CS160412A	CCV	1	7.15	7.06	7.22
		CS160412A	CCV	2	7.52	7.43	7.59
		CS160412A	CCV	3	8.11	8.02	8.18
		CS160412A	CCV	4	8.31	8.22	8.38
		CS160412A	CCV	5	8.44	8.35	8.51
Aroclor 1221	GC18F-1288-13	CS210412A	CCV	1	4.19	4.11	4.27
		CS210412A	CCV	2	5.40	5.32	5.48
		CS210412A	CCV	3	5.95	5.86	6.02
		CS210412A	CCV	4	6.14	6.06	6.22
		CS210412A	CCV	5	6.26	6.18	6.34
Aroclor 1232	GC18F-1288-23	CS320412A	CCV	1	6.26	6.17	8.33
		CS320412A	CCV	2	7.51	7.43	7.59
		CS320412A	CCV	3	8.11	8.02	8.18
		CS320412A	CCV	4	8.31	8.22	6.38
		CS320412A	CCV	5	8.44	8.35	6.51
Aroclor 1242	GC18F-1288-25	CS420412A	CCV	1	7.15	7.08	7.22
		CS420412A	CCV	2	7.51	7.43	7.59
		CS420412A	CCV	3	8.11	8.02	8.18
		CS420412A	CCV	4	8.31	8.22	8.36
		CS420412A	CCV	5	8.44	8.35	8.51

ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

ANALYTICAL SEQUENCE (GC18B)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11040061

ELAP ID No: 11078

Instrument ID: GC18B

Init. Calib. Date(s): 02/18/11,02/19/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>6.35</u>			DCBP RT: <u>26.63</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
01	A1016 20 PPB	021816A	GC18B-1231-3	02/18/2011 15:27:34	
02	A1016 100 PPB	021816B	GC18B-1231-4	02/18/2011 16:00:22	
03	A1016 250 PPB	021816C	GC18B-1231-5	02/18/2011 16:33:10	
04	A1016 500 PPB	021816D	GC18B-1231-6	02/18/2011 17:05:58	
05	A1016 1000 PPB	021816E	GC18B-1231-7	02/18/2011 17:38:46	
06	A1221 20 PPB	021821A	GC18B-1231-8	02/18/2011 18:11:34	
07	A1221 100 PPB	021821B	GC18B-1231-9	02/18/2011 18:44:23	
08	A1221 250 PPB	021821C	GC18B-1231-10	02/18/2011 19:17:10	
09	A1221 500 PPB	021821D	GC18B-1231-11	02/18/2011 19:49:57	
10	A1221 1000 PPB	021821E	GC18B-1231-12	02/18/2011 20:22:45	
11	A1232 20 PPB	021832A	GC18B-1231-13	02/18/2011 20:55:33	
12	A1232 100 PPB	021832B	GC18B-1231-14	02/18/2011 21:28:22	
13	A1232 250 PPB	021832C	GC18B-1231-15	02/18/2011 22:01:11	
14	A1232 500 PPB	021832D	GC18B-1231-16	02/18/2011 22:33:59	
15	A1232 1000 PPB	021832E	GC18B-1231-17	02/18/2011 23:06:48	
16	A1242 20 PPB	021842A	GC18B-1231-18	02/18/2011 23:39:36	
17	A1242 100 PPB	021842B	GC18B-1231-19	02/19/2011 00:12:22	
18	A1242 250 PPB	021842C	GC18B-1231-20	02/19/2011 00:45:09	
19	A1242 500 PPB	021842D	GC18B-1231-21	02/19/2011 01:17:57	
20	A1242 1000 PPB	021842E	GC18B-1231-22	02/19/2011 01:50:45	
21	A1248 20 PPB	021848A	GC18B-1231-23	02/19/2011 02:23:33	
22	A1248 100 PPB	021848B	GC18B-1231-24	02/19/2011 02:56:21	
23	A1248 250 PPB	021848C	GC18B-1231-25	02/19/2011 03:29:09	
24	A1248 500 PPB	021848D	GC18B-1231-26	02/19/2011 04:01:57	
25	A1248 1000 PPB	021848E	GC18B-1231-27	02/19/2011 04:34:45	
26	A1254 100 PPB	021854B	GC18B-1231-28	02/19/2011 05:07:32	6.36
27	A1254 20 PPB	021854A	GC18B-1231-29	02/19/2011 05:40:20	6.35
28	A1254 250 PPB	021854C	GC18B-1231-30	02/19/2011 06:13:08	6.35
29	A1254 500 PPB	021854D	GC18B-1231-31	02/19/2011 06:45:56	6.35
30	A1254 1000 PPB	021854E	GC18B-1231-32	02/19/2011 07:18:43	6.35
31	A1260 20 PPB	021860A	GC18B-1231-33	02/19/2011 07:51:32	
32	A1260 100 PPB	021860B	GC18B-1231-34	02/19/2011 08:24:20	
33	A1260 250 PPB	021860C	GC18B-1231-35	02/19/2011 08:57:08	
34	A1260 500 PPB	021860D	GC18B-1231-36	02/19/2011 09:29:56	
35	A1260 1000 PPB	021860E	GC18B-1231-37	02/19/2011 10:02:41	
36	A1262 20 PPB	021862A	GC18B-1231-38	02/19/2011 10:35:28	
37	A1262 100 PPB	021862B	GC18B-1231-39	02/19/2011 11:08:15	
38	A1262 250 PPB	021862C	GC18B-1231-40	02/19/2011 11:41:02	

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 4/18/2011
Lms Version 5.0.5.5

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**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11040061

ELAP ID No: 11078

Instrument ID: GC18B

Init. Calib. Date(s): 02/18/11,02/19/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>6.35</u>			DCBP RT: <u>26.63</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39	A1262 500 PPB	021862D	GC18B-1231-41	02/19/2011 12:13:50	
40	A1262 1000 PPB	021862E	GC18B-1231-42	02/19/2011 12:46:37	
41	A1268 20 PPB	021868A	GC18B-1231-43	02/19/2011 13:19:25	
42	A1268 100 PPB	021868B	GC18B-1231-44	02/19/2011 13:52:11	
43	A1268 250 PPB	021868C	GC18B-1231-45	02/19/2011 14:25:00	
44	A1268 500 PPB	021868D	GC18B-1231-46	02/19/2011 14:57:46	
45	A1268 1000 PPB	021868E	GC18B-1231-47	02/19/2011 15:30:33	
46	A1016 500 PPB	CS160218A	GC18B-1231-49	02/19/2011 16:36:08	6.35
47	A1221 500 PPB	CS210218A	GC18B-1231-50	02/19/2011 17:08:56	6.35
48	A1232 500 PPB	CS320218A	GC18B-1231-51	02/19/2011 17:41:45	6.35
49	A1242 500 PPB	CS420218A	GC18B-1231-52	02/19/2011 18:14:32	6.35
50	A1248 500 PPB	CS480218A	GC18B-1231-53	02/19/2011 18:47:19	6.35
51	A1254 500 PPB	CS540218A	GC18B-1231-54	02/19/2011 19:20:06	6.35
52	A1260 500 PPB	CS600218A	GC18B-1231-55	02/19/2011 19:52:52	6.35
53	A1262 500 PPB	CS620218A	GC18B-1231-56	02/19/2011 20:25:39	6.35
54	A1268 500 PPB	CS680218A	GC18B-1231-57	02/19/2011 20:58:27	6.35
55	A1016 500 PPB	CS160412A	GC18B-1261-3	04/12/2011 12:26:21	6.35
56	PBLK-15(METHOD BLANK)	AO03772BRR1	GC18B-1261-4	04/12/2011 12:59:09	6.35
57	LCS-15(LAB CONTROL SPIKE)	AO03772LRR1	GC18B-1261-5	04/12/2011 13:31:56	6.35
58	SB-NM-30 0-1'	AO03761RR1	GC18B-1261-6	04/12/2011 14:04:44	6.35
59	SB-NM-30 1-3'	AO03762RR1	GC18B-1261-7	04/12/2011 14:37:32	6.35
60	SB-NM-31 0-1'	AO03764RR1	GC18B-1261-8	04/12/2011 15:10:19	6.36
61	SB-NM-31 1-3'	AO03765RR1	GC18B-1261-9	04/12/2011 15:43:08	6.36
62	SB-NM-32 0-1'	AO03767RR1	GC18B-1261-10	04/12/2011 16:15:55	6.35
63	SB-NM-32 1-3'	AO03768RR1	GC18B-1261-11	04/12/2011 16:48:42	6.35
64	RG-ROW-2 0-1'	AO03770RR1	GC18B-1261-12	04/12/2011 17:21:30	6.35
65	A1221 500 PPB	CS210412A	GC18B-1261-13	04/12/2011 17:54:17	6.35
66	RG-ROW-2 1-3'	AO03771RR1	GC18B-1261-14	04/12/2011 18:27:04	6.35
67	RG-ROW-2 3-5'	AO03772RR1	GC18B-1261-15	04/12/2011 18:59:52	6.35
68	RG-ROW-2 3-5' MS	AO03772MRR1	GC18B-1261-16	04/12/2011 19:32:40	6.35(D)
69	RG-ROW-2 3-5' MSD	AO03772KRR1	GC18B-1261-17	04/12/2011 20:05:29	6.35(D)
70	RG-ROW-2 8-9'	AO03773RR1	GC18B-1261-18	04/12/2011 20:38:17	6.36
71	RG-ROW-3 0-1'	AO03775RR1	GC18B-1261-19	04/12/2011 21:11:04	6.35
72	RG-ROW-3 1-3'	AO03776RR1	GC18B-1261-20	04/12/2011 21:43:50	6.34
73	RG-ROW-3 5-7'	AO03777RR1	GC18B-1261-21	04/12/2011 22:16:37	6.35(D)
74	RG-ROW-3 7-8'	AO03778RR1	GC18B-1261-22	04/12/2011 22:49:24	6.35
75	A1232 500 PPB	CS320412A	GC18B-1261-23	04/12/2011 23:22:10	6.35
76	DUP-3	AO03780RR1	GC18B-1261-24	04/12/2011 23:54:56	6.35

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

Print Date: 4/18/2011
Lims Version : 5.0.5.5

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11040061

ELAP ID No: 11078

Instrument ID: GC18B

Init. Calib. Date(s): 02/18/11,02/19/11

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
TCMX RT: <u>6.35</u>			DCBP RT: <u>26.63</u>		
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
77 A1242 500 PPB	CS420412A	GC18B-1261-25	04/13/2011 00:27:42	6.35	26.58

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Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA-PA)

INITIAL CALIBRATION DATA (GC18B)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC18B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11040061
 Date(s) Analyzed: 02/18/11,02/19/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC18B-1231-3	021816A	20.0	44.201		
	GC18B-1231-4	021816B	100	45.445		
	GC18B-1231-5	021816C	250	47.155		
	GC18B-1231-6	021816D	500	44.447		
	GC18B-1231-7	021816E	1000	42.812	44.812	3.6
Aroclor 1221	GC18B-1231-8	021821A	20.0	12.299		
	GC18B-1231-9	021821B	100	13.520		
	GC18B-1231-10	021821C	250	11.783		
	GC18B-1231-11	021821D	500	11.908		
	GC18B-1231-12	021821E	1000	11.689	12.240	6.1
Aroclor 1232	GC18B-1231-13	021832A	20.0	24.367		
	GC18B-1231-14	021832B	100	23.427		
	GC18B-1231-15	021832C	250	20.714		
	GC18B-1231-16	021832D	500	21.766		
	GC18B-1231-17	021832E	1000	20.547	22.164	7.6
Aroclor 1242	GC18B-1231-18	021842A	20.0	37.298		
	GC18B-1231-19	021842B	100	38.602		
	GC18B-1231-20	021842C	250	38.538		
	GC18B-1231-21	021842D	500	39.208		
	GC18B-1231-22	021842E	1000	34.943	37.718	4.5
Aroclor 1248	GC18B-1231-23	021848A	20.0	36.428		
	GC18B-1231-24	021848B	100	39.219		
	GC18B-1231-25	021848C	250	38.675		
	GC18B-1231-26	021848D	500	37.824		
	GC18B-1231-27	021848E	1000	35.622	37.554	4.0
Aroclor 1254	GC18B-1231-29	021854A	20.0	51.344		
	GC18B-1231-28	021854B	100	59.790		
	GC18B-1231-30	021854C	250	58.597		
	GC18B-1231-31	021854D	500	56.321		
	GC18B-1231-32	021854E	1000	55.653	56.341	5.8
Aroclor 1280	GC18B-1231-33	021860A	20.0	71.725		
	GC18B-1231-34	021860B	100	71.507		
	GC18B-1231-35	021860C	250	68.349		
	GC18B-1231-36	021860D	500	70.767		
	GC18B-1231-37	021860E	1000	69.413	70.352	2.0
Aroclor 1262	GC18B-1231-38	021882A	20.0	71.922		
	GC18B-1231-39	021862B	100	75.201		
	GC18B-1231-40	021882C	250	72.003		
	GC18B-1231-41	021862D	500	68.514		
	GC18B-1231-42	021862E	1000	66.524	70.833	4.8

FORM VI-CLP-PCB(NEA-PACE)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC18B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11040061
 Date(s) Analyzed: 02/18/11,02/19/11

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1268	GC18B-1231-43	021868A	20.0	111.238		
	GC18B-1231-44	021868B	100	120.209		
	GC18B-1231-45	021868C	250	117.979		
	GC18B-1231-46	021868D	500	114.418		
	GC18B-1231-47	021888E	1000	114.648	115.698	3.0
TCMX	GC18B-1231-29	021854A	2.00	268.494		
	GC18B-1231-28	021854B	5.00	268.538		
	GC18B-1231-30	021854C	8.00	249.842		
	GC18B-1231-31	021854D	10.0	246.289		
	GC18B-1231-32	021854E	20.0	246.255	259.884	7.1
DCBP	GC18B-1231-29	021854A	20.0	250.449		
	GC18B-1231-28	021854B	50.0	241.683		
	GC18B-1231-30	021854C	80.0	223.381		
	GC18B-1231-31	021854D	100	218.040		
	GC18B-1231-32	021854E	200	214.340	229.578	6.8

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

INITIAL/CONTINUING CALIBRATION DATA (GC18B)

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC18B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11040061

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC18B-1231-49	CS160218A	ICV	494	500	-1.16	02/19/2011 16:36:08
Aroclor 1221	GC18B-1231-50	CS210218A	ICV	521	500	4.17	02/19/2011 17:08:58
Aroclor 1232	GC18B-1231-51	CS320218A	ICV	481	500	-3.86	02/19/2011 17:41:45
Aroclor 1242	GC18B-1231-52	CS420218A	ICV	444	500	-11.2	02/19/2011 18:14:32
Aroclor 1248	GC18B-1231-53	CS480218A	ICV	514	500	2.76	02/19/2011 18:47:19
Aroclor 1254	GC18B-1231-54	CS540218A	ICV	494	500	-1.20	02/19/2011 19:20:08
Aroclor 1260	GC18B-1231-55	CS600218A	ICV	445	500	-11.0	02/19/2011 19:52:52
Aroclor 1262	GC18B-1231-56	CS620218A	ICV	523	500	4.60	02/19/2011 20:25:39
Aroclor 1288	GC18B-1231-57	CS680218A	ICV	467	500	-6.66	02/19/2011 20:58:27
Aroclor 1016	GC18B-1261-3	CS160412A	CCV	452	500	-9.53	04/12/2011 12:26:21
Aroclor 1221	GC18B-1261-13	CS210412A	CCV	492	500	-1.52	04/12/2011 17:54:17
Aroclor 1232	GC18B-1261-23	CS320412A	CCV	456	500	-8.79	04/12/2011 23:22:10
Aroclor 1242	GC18B-1261-25	CS420412A	CCV	431	500	-13.7	04/13/2011 00:27:42

% Difference must be less than or equal to +/- 15 percent
 ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC16B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11040061

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC18B-1231-49	CS160218A	ICV	1	7.95	7.87	6.03
		CS160218A	ICV	2	8.35	8.27	6.43
		CS160218A	ICV	3	8.95	8.87	9.03
		CS160218A	ICV	4	9.17	9.09	9.25
		CS160218A	ICV	5	9.35	9.27	9.43
Aroclor 1221	GC18B-1231-50	CS210218A	ICV	1	5.17	5.09	5.25
		CS210218A	ICV	2	6.31	6.23	6.39
		CS210218A	ICV	3	6.79	6.71	6.87
		CS210218A	ICV	4	6.99	6.91	7.07
		CS210218A	ICV	5	7.11	7.03	7.19
Aroclor 1232	GC18B-1231-51	CS320218A	ICV	1	7.11	7.03	7.19
		CS320218A	ICV	2	8.35	8.27	8.43
		CS320218A	ICV	3	8.95	8.87	9.03
		CS320218A	ICV	4	9.17	9.09	9.25
		CS320218A	ICV	5	9.35	9.27	9.43
Aroclor 1242	GC18B-1231-52	CS420218A	ICV	1	7.95	7.67	8.03
		CS420218A	ICV	2	8.35	8.27	8.43
		CS420218A	ICV	3	8.95	8.87	9.03
		CS420218A	ICV	4	9.17	9.09	9.25
		CS420218A	ICV	5	9.35	9.27	9.43
Aroclor 1248	GC18B-1231-53	CS480218A	ICV	1	9.86	9.78	9.94
		CS480218A	ICV	2	10.58	10.50	10.66
		CS480218A	ICV	3	11.18	11.10	11.26
		CS480218A	ICV	4	11.38	11.30	11.46
		CS480218A	ICV	5	11.85	11.77	11.93
Aroclor 1254	GC18B-1231-54	CS540218A	ICV	1	12.03	11.95	12.11
		CS540218A	ICV	2	12.79	12.71	12.87
		CS540218A	ICV	3	13.08	13.00	13.16
		CS540218A	ICV	4	14.55	14.47	14.63
		CS540218A	ICV	5	15.40	15.32	15.48
Aroclor 1260	GC18B-1231-55	CS600218A	ICV	1	15.41	15.33	15.49
		CS600218A	ICV	2	17.63	17.55	17.71
		CS600218A	ICV	3	18.76	18.68	18.84
		CS600218A	ICV	4	19.37	19.29	19.45
		CS600218A	ICV	5	21.90	21.82	21.98
Aroclor 1262	GC18B-1231-56	CS620218A	ICV	1	15.40	15.32	15.48
		CS820218A	ICV	2	17.62	17.54	17.70
		CS620218A	ICV	3	18.75	18.67	18.83

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7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11040061

ELAP ID No: 11078

Instrument ID: GC18B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1262		CS620218A	ICV	4	19.36	19.28	19.44
		CS620218A	ICV	5	21.88	21.80	21.96
Aroclor 1268	GC18B-1231-57	CS680218A	ICV	1	19.36	19.28	19.44
		CS680218A	ICV	2	21.89	21.81	21.97
		CS680218A	ICV	3	19.14	19.06	19.22
		CS680218A	ICV	4	20.73	20.65	20.81
		CS680218A	ICV	5	21.15	21.07	21.23

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC18B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11040061

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC18B-1261-3	CS160412A	CCV	1	7.96	7.87	8.03
		CS160412A	CCV	2	8.36	8.27	8.43
		CS160412A	CCV	3	8.95	8.87	9.03
		CS160412A	CCV	4	9.18	9.09	9.25
		CS160412A	CCV	5	9.35	9.27	9.43
Aroclor 1221	GC18B-1261-13	CS210412A	CCV	1	5.17	5.09	5.25
		CS210412A	CCV	2	6.31	6.23	6.39
		CS210412A	CCV	3	6.78	6.71	6.87
		CS210412A	CCV	4	6.99	6.91	7.07
		CS210412A	CCV	5	7.11	7.03	7.19
Aroclor 1232	GC18B-1261-23	CS320412A	CCV	1	7.11	7.03	7.19
		CS320412A	CCV	2	8.35	8.27	8.43
		CS320412A	CCV	3	8.95	8.87	9.03
		CS320412A	CCV	4	9.17	9.09	9.25
		CS320412A	CCV	5	9.35	9.27	9.43
Aroclor 1242	GC18B-1261-25	CS420412A	CCV	1	7.95	7.87	8.03
		CS420412A	CCV	2	8.35	8.27	8.43
		CS420412A	CCV	3	8.95	8.87	9.03
		CS420412A	CCV	4	9.17	9.09	9.25
		CS420412A	CCV	5	9.35	9.27	9.43

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

QC SAMPLE RAW DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	LRP ID: <u>PBLK-15RR1</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>10.066 g</u>	Lab Sample ID: <u>AO03772BRR1</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC18F-1288-4</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>04/07/2011</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>04/12/2011</u>
Method: <u>SW-846 6082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>PBLK-15RR1</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>METHOD BLANK</u>
Sample wt(Dry)/vol:	<u>10.066 g</u>	Lab Sample ID:	<u>AO03772BRR1</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC18B-1261-4</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>04/07/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column: <small>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</small>		Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION	
		UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	LRF ID: <u>LCS-15RR1</u>
Matrix: <u>SODIUM SULFATE</u>	Client ID: <u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol: <u>10.018 g</u>	Lab Sample ID: <u>AO03772LRR1</u>
Percent Moisture: <u>0.0</u>	Lab File ID: <u>GC18F-1288-5</u>
Extraction: <u>Soxhlet Method (3540C)</u>	Date Received: _____
Conc. Extract Volume: <u>25000 uL</u>	Date Extracted: <u>04/07/2011</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>04/12/2011</u>
Method: <u>SW-846 8082 (PCB)</u>	Dilution Factor: <u>1</u>
GC Column: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.20	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>LCS-15RR1</u>
Matrix:	<u>SODIUM SULFATE</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>10.018 g</u>	Lab Sample ID:	<u>AO03772LRR1</u>
Percent Moisture:	<u>0.0</u>	Lab File ID:	<u>GC18B-1261-5</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>04/07/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION	Q
		UG/G	
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	1.16	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>LCS-15(LAB CONTROL SPIKE)</u>
LRF Sample ID: <u>LCS-15RR1</u>	Lab Sample ID: <u>AO03772LRR1</u>
Instrument 1 ID: <u>GC18F</u>	Instrument 2 ID: <u>GC18B</u>
Date Analyzed: <u>04/12/2011 1:31:51 PM</u>	Date Analyzed: <u>04/12/2011 1:31:56 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18F-1288-5</u>	Lab File ID 2: <u>GC18B-1261-5</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	7.95	7.87	8.03			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1242	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51	1.20		
	2	1	7.95	7.87	8.03			
		2	8.35	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43	1.16	3.39	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.0.55

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10-B
PCB Identification Summary

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	Client ID:	<u>LCS-15(LAB CONTROL SPIKE)</u>
LRF Sample ID:	<u>LCS-15RR1</u>	Lab Sample ID:	<u>AO03772LRR1</u>
Instrument 1 ID:	<u>GC18F</u>	Instrument 2 ID:	<u>GC18B</u>
Date Analyzed:	<u>04/12/2011 1:31:51 PM</u>	Date Analyzed:	<u>04/12/2011 1:31:56 PM</u>
GC Column 1:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1:	<u>GC18F-1288-5</u>	Lab File ID 2:	<u>GC18B-1261-5</u>
Matrix:	<u>Soil</u>		

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	8.90	9.06			
		2	NA	9.52	9.68			
		3	NA	10.12	10.28			
		4	NA	10.28	10.44			
		5	NA	10.66	10.82			
	2	1	NA	9.78	9.94			
		2	NA	10.50	10.66			
		3	NA	11.10	11.26			
		4	NA	11.30	11.46			
		5	NA	11.77	11.93			
Aroclor 1254	1	1	NA	10.97	11.13			
		2	NA	11.59	11.75			
		3	NA	11.86	12.02			
		4	NA	13.28	13.44			
		5	NA	14.08	14.24			
	2	1	NA	11.95	12.11			
		2	NA	12.71	12.87			
		3	NA	13.00	13.16			
		4	NA	14.47	14.63			
		5	NA	15.32	15.48			
Aroclor 1260	1	1	NA	14.08	14.24			
		2	NA	16.26	16.42			
		3	NA	17.05	17.21			
		4	NA	17.73	17.89			
		5	NA	19.63	19.79			
	2	1	NA	15.33	15.49			
		2	NA	17.55	17.71			
		3	NA	18.68	18.84			
		4	NA	19.29	19.45			
		5	NA	21.82	21.98			

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-12MSRR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 3-5' MS</u>
Sample wt(Dry)/vol:	<u>9.1626 g</u>	Lab Sample ID:	<u>AO03772MRR1</u>
Percent Moisture:	<u>12.0</u>	Lab File ID:	<u>GC18F-1288-16</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>04/07/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>10</u>
GC Column:	<u>Phenomenax, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.546	U
11104-28-2	Aroclor 1221	0.546	U
11141-16-5	Aroclor 1232	0.546	U
53469-21-9	Aroclor 1242	11.9	
12672-29-6	Aroclor 1248	0.546	U
11097-69-1	Aroclor 1254	0.546	U
11096-82-5	Aroclor 1260	0.546	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>11040061-12MSRR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 3-5' MS</u>
Sample wt(Dry)/vol:	<u>9.1626 g</u>	Lab Sample ID:	<u>AO03772MRR1</u>
Percent Moisture:	<u>12.0</u>	Lab File ID:	<u>GC18B-1261-16</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>04/07/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>10</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION	Q
		UG/G	
12674-11-2	Aroclor 1016	0.546	U
11104-28-2	Aroclor 1221	0.546	U
11141-16-5	Aroclor 1232	0.546	U
53469-21-9	Aroclor 1242	10.9	
12672-29-6	Aroclor 1248	0.546	U
11097-69-1	Aroclor 1254	0.546	U
11096-82-5	Aroclor 1260	0.546	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11040061-12MSRR1
 Instrument 1 ID: GC18F
 Date Analyzed: 04/12/2011 7:32:36 PM
 GC Column 1: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC18F-1288-16
 Matrix: Soil

SDG No: 11040061
 Client ID: RG-ROW-2 3-5' MS
 Lab Sample ID: AO03772MRR1
 Instrument 2 ID: GC18B
 Date Analyzed: 04/12/2011 7:32:40 PM
 GC Column 2: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC18B-1261-16

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	7.96	7.87	8.03			
		2	8.36	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.18	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	8.36	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.18	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1242	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51	11.9		
	2	1	7.96	7.87	8.03			
		2	8.36	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.18	9.09	9.25			
		5	9.35	9.27	9.43	10.9	8.77	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lims Version: 5.05.5

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-2 3-5' MS</u>
LRF Sample ID: <u>11040061-12MSRR1</u>	Lab Sample ID: <u>AO03772MRR1</u>
Instrument 1 ID: <u>GC18F</u>	Instrument 2 ID: <u>GC18B</u>
Date Analyzed: <u>04/12/2011 7:32:36 PM</u>	Date Analyzed: <u>04/12/2011 7:32:40 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18F-1288-16</u>	Lab File ID 2: <u>GC18B-1261-16</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.99	8.90	9.06			
		2	9.60	9.52	9.68			
		3	10.22	10.12	10.28			
		4	10.37	10.28	10.44			
		5	10.75	10.66	10.82			
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.19	11.10	11.26			
		4	11.38	11.30	11.46			
		5	11.85	11.77	11.93			
Aroclor 1254	1	1	11.06	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.37	13.28	13.44			
		5	14.18	14.08	14.24			
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.55	14.47	14.63			
		5	15.39	15.32	15.48			
Aroclor 1260	1	1	14.18	14.08	14.24			
		2	16.34	16.26	16.42			
		3	NA	17.05	17.21			
		4	NA	17.73	17.89			
		5	NA	19.63	19.79			
	2	1	15.39	15.33	15.49			
		2	17.63	17.55	17.71			
		3	18.74	18.68	18.84			
		4	19.37	19.29	19.45			
		5	21.89	21.82	21.98			

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
Lima Version: 5.0.5.5

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-12MSDRR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2 3-5' MSD</u>
Sample wt(Dry)/vol:	<u>9.1247 g</u>	Lab Sample ID:	<u>AO03772KRR1</u>
Percent Moisture:	<u>12.0</u>	Lab File ID:	<u>GC18F-1288-17</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>04/07/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>10</u>
GC Column:	<u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/G	Q
12674-11-2	Aroclor 1016	0.548	U
11104-28-2	Aroclor 1221	0.548	U
11141-16-5	Aroclor 1232	0.548	U
53469-21-9	Aroclor 1242	12.2	
12672-29-6	Aroclor 1248	0.548	U
11097-69-1	Aroclor 1254	0.548	U
11096-82-5	Aroclor 1260	0.548	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (POL). POLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11040061</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11040061-12MSDRR1</u>
Matrix:	<u>Soil</u>	Client ID:	<u>RG-ROW-2-3-S MSO</u>
Sample wt(Dry)/vol:	<u>9.1247 g</u>	Lab Sample ID:	<u>AO03772KRR1</u>
Percent Moisture:	<u>12.0</u>	Lab File ID:	<u>GC18B-1261-17</u>
Extraction:	<u>Soxhlet Method (3540C)</u>	Date Received:	<u>04/07/2011</u>
Conc. Extract Volume:	<u>25000 uL</u>	Date Extracted:	<u>04/07/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>04/12/2011</u>
Method:	<u>SW-846 8082 (PCB)</u>	Dilution Factor:	<u>10</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION	
		UG/G	Q
12674-11-2	Aroclor 1016	0.548	U
11104-28-2	Aroclor 1221	0.548	U
11141-16-5	Aroclor 1232	0.548	U
53469-21-9	Aroclor 1242	11.0	
12672-29-6	Aroclor 1248	0.548	U
11097-69-1	Aroclor 1254	0.548	U
11096-82-5	Aroclor 1260	0.548	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: 11040061-12MSDRR1
 Instrument 1 ID: GC18F
 Date Analyzed: 04/12/2011 8:05:24 PM
 GC Column 1: Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC18F-1288-17
 Matrix: Soil

SDG No: 11040061
 Client ID: RG-ROW-2 3-S' MSD
 Lab Sample ID: AO03772KRR1
 Instrument 2 ID: GC18B
 Date Analyzed: 04/12/2011 8:05:29 PM
 GC Column 2: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC18B-1261-17

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	7.96	7.87	8.03			
		2	8.36	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1221	1	1	NA	4.11	4.27			
		2	NA	5.32	5.48			
		3	NA	5.86	6.02			
		4	NA	6.06	6.22			
		5	NA	6.18	6.34			
	2	1	NA	5.09	5.25			
		2	NA	6.23	6.39			
		3	NA	6.71	6.87			
		4	NA	6.91	7.07			
		5	NA	7.03	7.19			
Aroclor 1232	1	1	NA	6.17	6.33			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51			
	2	1	NA	7.03	7.19			
		2	8.36	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43			
Aroclor 1242	1	1	7.15	7.06	7.22			
		2	7.52	7.43	7.59			
		3	8.11	8.02	8.18			
		4	8.31	8.22	8.38			
		5	8.44	8.35	8.51	12.2		
	2	1	7.96	7.87	8.03			
		2	8.36	8.27	8.43			
		3	8.95	8.87	9.03			
		4	9.17	9.09	9.25			
		5	9.35	9.27	9.43	11.0	10.3	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA-PACE)

Print Date: 4/18/2011
 Lims Version: 5.0.5.5

10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11040061</u>
ELAP ID No: <u>11078</u>	Client ID: <u>RG-ROW-2 3-5' MSD</u>
LRF Sample ID: <u>11040061-12MSDRR1</u>	Lab Sample ID: <u>AO03772KRR1</u>
Instrument 1 ID: <u>GC18F</u>	Instrument 2 ID: <u>GC18B</u>
Date Analyzed: <u>04/12/2011 8:05:24 PM</u>	Date Analyzed: <u>04/12/2011 8:05:29 PM</u>
GC Column 1: <u>Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC18F-1288-17</u>	Lab File ID 2: <u>GC18B-1261-17</u>
Matrix: <u>Soil</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/g)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	8.99	8.90	9.06			
		2	9.61	9.52	9.68			
		3	10.22	10.12	10.28			
		4	10.37	10.28	10.44			
		5	10.75	10.66	10.82			
	2	1	9.86	9.78	9.94			
		2	10.58	10.50	10.66			
		3	11.19	11.10	11.26			
		4	11.38	11.30	11.46			
		5	11.85	11.77	11.93			
Aroclor 1254	1	1	11.06	10.97	11.13			
		2	11.68	11.59	11.75			
		3	11.95	11.86	12.02			
		4	13.37	13.28	13.44			
		5	14.17	14.08	14.24			
	2	1	12.03	11.95	12.11			
		2	12.79	12.71	12.87			
		3	13.08	13.00	13.16			
		4	14.55	14.47	14.63			
		5	15.41	15.32	15.48			
Aroclor 1260	1	1	14.17	14.08	14.24			
		2	16.35	16.26	16.42			
		3	NA	17.05	17.21			
		4	NA	17.73	17.89			
		5	NA	19.63	19.79			
	2	1	15.41	15.33	15.49			
		2	17.61	17.55	17.71			
		3	18.77	18.68	18.84			
		4	19.38	19.29	19.45			
		5	21.90	21.82	21.98			



January 20, 2011

David Sullivan
TRC Solutions - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: City of New Bedford - Nemasket
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11A0278

Enclosed are results of analyses for samples received by the laboratory on January 13, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive, flowing style.

Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Solutions - Lowell
630 Suffolk Street
Lowell, MA 01852
ATTN: David Sullivan

REPORT DATE: 1/20/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11A0278

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: City of New Bedford - Nemasket

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-93	11A0278-01	Ground Water		SW-846 6020A SW-846 7470A SW-846 8270C	
MW-39	11A0278-02	Ground Water		SW-846 6020A SW-846 7470A SW-846 8270C	
MW-38	11A0278-03	Ground Water		SW-846 6020A SW-846 7470A SW-846 8270C	
MW-37	11A0278-04	Ground Water		SW-846 6020A SW-846 7470A SW-846 8270C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.
For method 8270, only PAH compounds were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-93

Sampled: 1/13/2011 08:45

Sample ID: 11A0278-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:14	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		76.5	30-130					1/15/11 15:14	
2-Fluorobiphenyl		70.2	30-130					1/15/11 15:14	
Terphenyl-d14		47.7	30-130					1/15/11 15:14	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Ncmasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-93

Sampled: 1/13/2011 08:45

Sample ID: 11A0278-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Barium	49	10	µg/L	1		SW-846 6020A	1/14/11	1/18/11 12:01	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 12:01	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 12:53	CWB
Nickel	5.5	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH
Zinc	24	10	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:15	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-93

Sampled: 1/13/2011 08:45

Sample ID: 11A0278-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Barium	49	10	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 11:40	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 13:24	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH
Zinc	23	10	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:32	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-39

Sampled: 1/13/2011 09:45

Sample ID: 11A0278-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 13:50	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Indeno(1,2,3-ed)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 15:50	BGL
Surrogates	% Recovery	Recovery Limits			Flag				
Nitrobenzene-d5	79.5	30-130						1/15/11 15:50	
2-Fluorobiphenyl	73.1	30-130						1/15/11 15:50	
Terphenyl-d14	48.6	30-130						1/15/11 15:50	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-39

Sampled: 1/13/2011 09:45

Sample ID: 11A0278-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Barium	51	10	µg/L	1		SW-846 6020A	1/14/11	1/18/11 12:04	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 12:04	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Chromium	1.4	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 12:59	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH
Zinc	24	10	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:18	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-39

Sampled: 1/13/2011 09:45

Sample ID: 11A0278-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Barium	47	10	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 11:43	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 13:25	CWB
Nickel	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH
Zinc	19	10	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:36	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasquet

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-38

Sampled: 1/13/2011 11:10

Sample ID: 11A0278-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 16:26	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	75.0		30-130					1/15/11 16:26	
2-Fluorobiphenyl	69.1		30-130					1/15/11 16:26	
Terphenyl-d14	40.9		30-130					1/15/11 16:26	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-38

Sampled: 1/13/2011 11:10

Sample ID: 11A0278-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Arsenic	0.96	0.40	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Barium	240	50	µg/L	5		SW-846 6020A	1/14/11	1/18/11 12:21	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 12:08	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 13:01	CWB
Nickel	6.1	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Thallium	NO	0.20	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH
Zinc	37	10	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:22	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemaskeet

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-38

Sampled: 1/13/2011 11:10

Sample ID: 11A0278-03

Sample Matrix: Ground Water

Metals Analyzes (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Arsenic	0.93	0.40	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Barium	240	50	µg/L	5		SW-846 6020A	1/14/11	1/18/11 11:50	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 11:47	KSB
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 13:27	CWB
Nickel	6.2	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH
Zinc	30	10	µg/L	1		SW-846 6020A	1/14/11	1/14/11 16:39	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-37

Sampled: 1/13/2011 13:10

Sample ID: 11A0278-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	1/14/11	1/15/11 17:03	BGL
Surrogates	% Recovery	Recovery Limits			Flag				
Nitrobenzene-d5	70.0	30-130				1/15/11 17:03			
2-Fluorobiphenyl	65.7	30-130				1/15/11 17:03			
Terphenyl-d14	43.6	30-130				1/15/11 17:03			



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-37

Sampled: 1/13/2011 13:10

Sample ID: 11A0278-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Barium	170	50	µg/L	5		SW-846 6020A	1/14/11	1/18/11 12:28	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 12:24	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 13:03	CWB
Nickel	8.9	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH
Zinc	45	10	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:38	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: City of New Bedford - Nemasket

Sample Description:

Work Order: 11A0278

Date Received: 1/13/2011

Field Sample #: MW-37

Sampled: 1/13/2011 13:10

Sample ID: 11A0278-04

Sample Matrix: Ground Water.

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Barium	150	50	µg/L	5		SW-846 6020A	1/14/11	1/18/11 11:57	KSH
Beryllium	ND	0.40	µg/L	1		SW-846 6020A	1/14/11	1/18/11 11:54	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSR
Lead	ND	1.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/14/11	1/17/11 13:29	CWB
Nickel	12	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Selenium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Thallium	ND	0.20	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH
Vanadium	ND	5.0	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSR
Zinc	4T	10	µg/L	1		SW-846 6020A	1/14/11	1/17/11 18:08	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11A0278-01 [MW-93]	B024871	50.0	50.0	01/14/11
11A0278-02 [MW-39]	B024871	50.0	50.0	01/14/11
11A0278-03 [MW-38]	B024871	50.0	50.0	01/14/11
11A0278-04 [MW-37]	B024871	50.0	50.0	01/14/11

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11A0278-01 [MW-93]	B024875	50.0	50.0	01/14/11
11A0278-02 [MW-39]	B024875	50.0	50.0	01/14/11
11A0278-03 [MW-38]	B024875	50.0	50.0	01/14/11
11A0278-04 [MW-37]	B024875	50.0	50.0	01/14/11

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11A0278-01 [MW-93]	B024858	6.00	6.00	01/14/11
11A0278-02 [MW-39]	B024858	6.00	6.00	01/14/11
11A0278-03 [MW-38]	B024858	6.00	6.00	01/14/11
11A0278-04 [MW-37]	B024858	6.00	6.00	01/14/11

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11A0278-01 [MW-93]	B024859	6.00	6.00	01/14/11
11A0278-02 [MW-39]	B024859	6.00	6.00	01/14/11
11A0278-03 [MW-38]	B024859	6.00	6.00	01/14/11
11A0278-04 [MW-37]	B024859	6.00	6.00	01/14/11

Prep Method: SW-846 3510C-SW-846 8270C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11A0278-01 [MW-93]	B024863	1000	1.00	01/14/11
11A0278-02 [MW-39]	B024863	1000	1.00	01/14/11
11A0278-03 [MW-38]	B024863	1000	1.00	01/14/11
11A0278-04 [MW-37]	B024863	1000	1.00	01/14/11

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B024863 - SW-846 3510C										
Blank (B024863-BLK1) Prepared: 01/14/11 Analyzed: 01/15/11										
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Surrogate: Nitrobenzene-d5	95.3		µg/L	100		95.3	30-130			
Surrogate: 2-Fluorobiphenyl	87.4		µg/L	100		87.4	30-130			
Surrogate: Terphenyl-d14	86.7		µg/L	100		86.7	30-130			
LCS (B024863-BS1) Prepared: 01/14/11 Analyzed: 01/15/11										
Acenaphthene	77.0	5.0	µg/L	100		77.0	40-140			
Acenaphthylene	72.8	5.0	µg/L	100		72.8	40-140			
Anthracene	80.4	5.0	µg/L	100		80.4	40-140			
Benzo(a)anthracene	92.4	5.0	µg/L	100		92.4	40-140			
Benzo(a)pyrene	90.4	5.0	µg/L	100		90.4	40-140			
Benzo(b)fluoranthene	89.8	5.0	µg/L	100		89.8	40-140			
Benzo(g,h,i)perylene	93.4	5.0	µg/L	100		93.4	40-140			
Benzo(k)fluoranthene	88.4	5.0	µg/L	100		88.4	40-140			
Chrysene	92.4	5.0	µg/L	100		92.4	40-140			
Dibenz(a,h)anthracene	98.5	5.0	µg/L	100		98.5	40-140			
Fluoranthene	86.0	5.0	µg/L	100		86.0	40-140			
Fluorene	76.7	5.0	µg/L	100		76.7	40-140			
Indeno(1,2,3-cd)pyrene	104	5.0	µg/L	100		104	40-140			
2-Methylnaphthalene	78.2	5.0	µg/L	100		78.2	40-140			
Naphthalene	74.0	5.0	µg/L	100		74.0	40-140			
Phenanthrene	79.0	5.0	µg/L	100		79.0	40-140			
Pyrene	87.0	5.0	µg/L	100		87.0	40-140			
Surrogate: Nitrobenzene-d5	94.0		µg/L	100		94.0	30-130			
Surrogate: 2-Fluorobiphenyl	88.1		µg/L	100		88.1	30-130			
Surrogate: Terphenyl-d14	102		µg/L	100		102	30-130			



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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B024863 - SW-846 3510C										
LCS Dup (B024863-BSD1) Prepared: 01/14/11 Analyzed: 01/15/11										
Acenaphthene	78.7	5.0	µg/L	100		78.7	40-140	2.24	20	
Acenaphthylene	74.8	5.0	µg/L	100		74.8	40-140	2.67	20	
Anthracene	81.1	5.0	µg/L	100		81.1	40-140	0.929	20	
Benzo(a)anthracene	92.9	5.0	µg/L	100		92.9	40-140	0.507	20	
Benzo(a)pyrene	91.6	5.0	µg/L	100		91.6	40-140	1.26	20	
Benzo(b)fluoranthene	94.0	5.0	µg/L	100		94.0	40-140	4.61	20	
Benzo(g,h,i)perylene	95.4	5.0	µg/L	100		95.4	40-140	2.20	20	
Benzo(k)fluoranthene	85.7	5.0	µg/L	100		85.7	40-140	3.07	20	
Chrysene	95.3	5.0	µg/L	100		95.3	40-140	3.11	20	
Dibenz(a,b)anthracene	95.2	5.0	µg/L	100		95.2	40-140	3.44	20	
Fluoranthene	86.4	5.0	µg/L	100		86.4	40-140	0.534	20	
Fluorene	78.2	5.0	µg/L	100		78.2	40-140	1.94	20	
Indeno(1,2,3-cd)pyrene	103	5.0	µg/L	100		103	40-140	0.943	50	
2-Methylnaphthalene	77.8	5.0	µg/L	100		77.8	40-140	0.436	20	
Naphthalene	73.8	5.0	µg/L	100		73.8	40-140	0.338	20	
Phenanthrene	79.5	5.0	µg/L	100		79.5	40-140	0.719	20	
Pyrene	88.7	5.0	µg/L	100		88.7	40-140	2.01	20	
Surrogate: Nitrobenzene-d5	92.8		µg/L	100		92.8	30-130			
Surrogate: 2-Fluorobiphenyl	87.6		µg/L	100		87.6	30-130			
Surrogate: Terphenyl-d14	102		µg/L	100		102	30-130			



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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B024859 - SW-846 7470A Prep										
Blank (B024859-BLK1) Prepared: 01/14/11 Analyzed: 01/17/11										
Mercury	ND	0.00010	mg/L							
LCS (B024859-BS1) Prepared: 01/14/11 Analyzed: 01/17/11										
Mercury	0.00197	0.00010	mg/L	0.00200		98.6	80-120			
LCS Dup (B024859-BSD1) Prepared: 01/14/11 Analyzed: 01/17/11										
Mercury	0.00195	0.00010	mg/L	0.00200		97.3	80-120	1.36	20	
Batch B024875 - SW-846 3005A										
Blank (B024875-BLK1) Prepared & Analyzed: 01/14/11										
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	NO	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B024875-BS1) Prepared & Analyzed: 01/14/11										
Antimony	101	5.0	µg/L	100		101	80-120			
Arsenic	103	2.0	µg/L	100		103	80-120			
Barium	104	50	µg/L	100		104	80-120			
Beryllium	104	2.0	µg/L	100		104	80-120			
Cadmium	103	2.5	µg/L	100		103	80-120			
Chromium	103	5.0	µg/L	100		103	80-120			
Lead	105	5.0	µg/L	100		105	80-120			
Nickel	99.3	25	µg/L	100		99.3	80-120			
Selenium	102	25	µg/L	100		102	80-120			
Silver	103	2.5	µg/L	100		103	80-120			
Thallium	100	1.0	µg/L	100		100	80-120			
Vanadium	93.5	25	µg/L	100		93.5	80-120			
Zinc	103	50	µg/L	100		103	80-120			
LCS Dup (B024875-BSD1) Prepared & Analyzed: 01/14/11										
Antimony	98.1	5.0	µg/L	100		98.1	80-120	2.44	20	
Arsenic	100	2.0	µg/L	100		100	80-120	2.85	20	
Barium	99.9	50	µg/L	100		99.9	80-120	3.85	20	
Beryllium	102	2.0	µg/L	100		102	80-120	2.14	20	
Cadmium	101	2.5	µg/L	100		101	80-120	2.77	20	
Chromium	99.2	5.0	µg/L	100		99.2	80-120	3.42	20	
Lead	102	5.0	µg/L	100		102	80-120	3.45	20	
Nickel	95.6	25	µg/L	100		95.6	80-120	3.75	20	
Selenium	96.3	25	µg/L	100		96.3	80-120	5.57	20	
Silver	100	2.5	µg/L	100		100	80-120	2.59	20	
Thallium	96.6	1.0	µg/L	100		96.6	80-120	3.57	20	
Vanadium	91.7	25	µg/L	100		91.7	80-120	1.96	20	
Zinc	101	50	µg/L	100		101	80-120	2.00	20	



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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B024858 - SW-846 7470A Prep										
Blank (B024858-BLK1)				Prepared: 01/14/11 Analyzed: 01/17/11						
Mercury	ND	0.00010	mg/L							
LCS (B024858-BS1)				Prepared: 01/14/11 Analyzed: 01/17/11						
Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120			
LCS Dup (B024858-BSD1)				Prepared: 01/14/11 Analyzed: 01/17/11						
Mercury	0.00200	0.00010	mg/L	0.00200		99.8	80-120	1.67	20	
Batch B024871 - SW-846 3005A Dissolved										
Blank (B024871-BLK1)				Prepared & Analyzed: 01/14/11						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B024871-BS1)				Prepared & Analyzed: 01/14/11						
Antimony	97.9	5.0	µg/L	100		97.9	80-120			
Arsenic	102	2.0	µg/L	100		102	80-120			
Barium	99.1	50	µg/L	100		99.1	80-120			
Beryllium	99.3	2.0	µg/L	100		99.3	80-120			
Cadmium	101	2.5	µg/L	100		101	80-120			
Chromium	101	5.0	µg/L	100		101	80-120			
Lead	105	5.0	µg/L	100		105	80-120			
Nickel	96.9	25	µg/L	100		96.9	80-120			
Selenium	97.9	25	µg/L	100		97.9	80-120			
Silver	99.5	2.5	µg/L	100		99.5	80-120			
Thallium	99.1	1.0	µg/L	100		99.1	80-120			
Vanadium	92.8	25	µg/L	100		92.8	80-120			
Zinc	105	50	µg/L	100		105	80-120			
LCS Dup (B024871-BSD1)				Prepared & Analyzed: 01/14/11						
Antimony	98.0	5.0	µg/L	100		98.0	80-120	0.123	20	
Arsenic	99.8	2.0	µg/L	100		99.8	80-120	2.25	20	
Barium	98.4	50	µg/L	100		98.4	80-120	0.728	20	
Beryllium	100	2.0	µg/L	100		100	80-120	1.04	20	
Cadmium	99.4	2.5	µg/L	100		99.4	80-120	1.82	20	
Chromium	97.8	5.0	µg/L	100		97.8	80-120	3.47	20	
Lead	102	5.0	µg/L	100		102	80-120	2.24	20	
Nickel	96.5	25	µg/L	100		96.5	80-120	0.354	20	
Selenium	96.1	25	µg/L	100		96.1	80-120	1.84	20	
Silver	98.1	2.5	µg/L	100		98.1	80-120	1.40	20	
Thallium	96.7	1.0	µg/L	100		96.7	80-120	2.43	20	
Vanadium	90.6	25	µg/L	100		90.6	80-120	2.35	20	
Zinc	103	50	µg/L	100		103	80-120	1.45	20	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS

Certified Analyses Included in this Report

Analyte	Certifications
<i>SW-846 6020A in Water</i>	
Antimony	CT,NH,NY,RI,NC
Antimony	CT,NH,NY,RI,NC
Arsenic	CT,NH,NY,RI,NC
Arsenic	CT,NH,NY,RI,NC
Barium	CT,NH,NY,RI,NC
Barium	MA,NY,CT,NC
Beryllium	CT,NH,NY,RI,NC
Beryllium	CT,NH,NY,RI,NC
Cadmium	CT,NH,NY,RI,NC
Cadmium	CT,NH,NY,RI,NC
Chromium	CT,NH,NY,RI,NC
Chromium	CT,NH,NY,RI,NC
Lead	CT,NH,NY,RI,NC
Lead	CT,NH,NY,RI,NC
Nickel	CT,NH,NY,RI,NC
Nickel	CT,NH,NY,RI,NC
Selenium	CT,NH,NY,RI,NC
Selenium	CT,NH,NY,RI,NC
Silver	CT,NC,NH,NY,RI
Silver	CT,NH,NY,RI,NC
Thallium	CT,NH,NY,RI,NC
Thallium	CT,NH,NY,RI,NC
Vanadium	CT,NH,NY,RI,NC
Vanadium	CT,NC,NH,NY,RI
Zinc	CT,NH,NY,RI,NC
Zinc	CT,NH,NY,RI,NC
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,RI,NC
Mercury	CT,NH,NY,RI,NC
<i>SW-846 8270C in Water</i>	
Acenaphthene	CT,NY,NH,RI
Acenaphthylene	CT,NY,NH,RI
Anthracene	CT,NY,NH,RI
Benzo(a)anthracene	CT,NY,NH,RI
Benzo(a)pyrene	CT,NY,NH,RI
Benzo(b)fluoranthene	CT,NY,NH,RI
Benzo(g,h,i)perylene	CT,NY,NH,RI
Benzo(k)fluoranthene	CT,NY,NH,RI
Chrysene	CT,NY,NH,RI
Dibenz(a,h)anthracene	CT,NY,NH,RI
Fluoranthene	CT,NY,NH,RI
Fluorene	NY,NH,RI
Indeno(1,2,3-cd)pyrene	CT,NY,NH,RI
2-Methylnaphthalene	CT,NY,NH
Naphthalene	CT,NY,NH,RI
Phenanthrene	CT,NY,NH,RI



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CERTIFICATIONS

Certified Analytes included in this Report

Analyte	Certifications
SW-846 8270C in Water	

Pyrene CT,NY,NH,RI

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011



con-test
ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-8405
Email: info@contestlabs.com
www.contestlabs.com

11A0278

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: TRC Environmental
Address: 650 Suffolk Street
Lowell, MA 01854
Telephone: 978-656-3565
Project #: 115056

Attention: Dave Sullivan
Client PO#
Project Location: City of New Bedford - Newasket
Project # 115056

Sampled By: Charles Foster
Project Proposal Provided? (for billing purposes)
 Yes No
proposal date

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Fax # 978-455-1995
Email: dsullivan@trcsolutions.com
Format: PDF EXCEL OTHER

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix	Lab Code	MCP 14 Metals + Hg (Dissolved)	PAH's by B270C	MCP 14 Metals + Hg (Total)	ANALYSIS REQUESTED
		Beginning Date/Time	Ending Date/Time								
01	MW-93	01/13/11	0845	X	GW	U	1	2	1		
02	MW-39	01/13/11	0945	X	GW	U	1	2	1		
03	MW-38	01/13/11	1110	X	GW	U	1	2	1		
04	MW-37	01/13/11	1310	X	GW	U	1	2	1		

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Cont. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature) [Signature] Date/Time: 01/13/11 1710
Received by (signature) [Signature] Date/Time: 1/13/11 1710
Relinquished by (signature) [Signature] Date/Time: 1/13/11 1845
Received by (signature) [Signature] Date/Time: 1/13/11 1845

Turnaround ^{††}
 7-Day
 10-Day
 14-Day
 18-Day
 24-Hr
 72-Hr
 14-Day
 18-Day
RUSH!
Require lab approval

Detection Limit Requirements
Massachusetts: MCP GW3/GW3
Connecticut: _____
Other: _____

Is your project MCP or RCP?
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required PWSID # _____

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.



NELAC & AIHA Certified
WBE/DBE Certified

Sample Receipt Checklist

CLIENT NAME: TRC Environmental RECEIVED BY: LAB DATE: 1/13/11

- 1) Was the chain(s) of custody relinquished and signed? Yes No
 2) Does the chain agree with the samples? Yes No
 If not, explain:
 3) Are all the samples in good condition? Yes No
 If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.9°C

5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____
 6) Are there any samples "On Hold"? Yes No Stored where: _____

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	8	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	8	Air Cassette	
40 mL Vial - type listed below		SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 11A0278

Project Location: City of New Bedford - Nemasket

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11A0278-01 thru 11A0278-04

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM III B (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D (X)	8082 PCB CAM V A ()	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Michael A. Erickson

Date: 01/20/11



Date: February 14, 2011-C

NEA PACE Analytical e-Report

Report prepared for:
TRC ENVIRONMENTAL
WANNALANCIT MILLS
650 SUFFOLK ST
LOWELL, MA 01854
CONTACT: DAVID SULLIVAN

Project ID: NEMASKET LOT
Sampling Date(s): January 13, 2011
NEA Report ID: 11010095
Client Service Contact: William Kotas (518) 346-4592 ext. 17

Analysis Included:
PCB Analysis - SW-846 8082

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. This report shall not be reproduced, except in full, without the written consent of NEA - A Division of Pace Analytical Services, Inc.

A handwritten signature in black ink that reads "Robert E. Wagner". The signature is written in a cursive style with a large, stylized "R" and "W".

Robert E. Wagner
Laboratory Director



Certifications: NY (EPA: NY00906, ELAP: 11078), NJ (NY026), CT (PH-0337), MA(M-NY906), NC (668)

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CASE NARRATIVE

February 14, 2011

CASE NARRATIVE

This data package (NEA SDG ID: 11010095) consists of 3 water samples received on 01/14/2011. The samples are from Project Name: NEMASKET LOT.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AO00493	MW-39	01/13/2011 09:45
AO00494	MW-38	01/13/2011 11:10
AO00495	MW-37	01/13/2011 13:10

Sample Delivery and Receipt Conditions

- (1.) All samples were delivered to the laboratory via FEDEX delivery service on 01/14/2011.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) The following cooler temperature was recorded at sample receipt: 0.4 degrees Celsius. Please see Chain of Custody for details.

PCB Aroclor Analysis

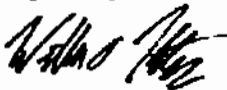
Analysis for PCB Aroclors was performed by method SW-846 8082A using a dual column GC system. Samples were extracted by Continuous Liquid/Liquid Extraction (EPA - Method 3520C). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for the analysis.

Qualifier Summary

- (1.) B-Denotes analyte observed in associated method blank or extraction blank at a concentration exceeding the MDL.
- (2.) J-Denotes concentration result greater than the MDL but less than the RL.
- (3.) U-Denotes analyte not observed at a concentration greater than the MDL.

Respectfully submitted,



William A. Kotas
Client Services Manager

SAMPLE CHAIN OF CUSTODY



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

11010095P1

Section A
 Required Client Information:
 Company: **TRC Environmental**
 Address: **650 Suffolk St. Lowell, MA 01854**
 Email To: **dsullivan@trcsolutions.com**
 Phone: **978-656-3565** Fax:
 Requested Due Date/TIME: **Std.**

Section B
 Required Project Information:
 Report To: **Dave Sullivan**
 Copy To: **Edenly@trcsolutions.com**
 Purchase Order No.:
 Project Name: **City of New Bedford - Newmarket**
 Project Number: **115058**

Section C
 Invoice Information:
 Attention: **Same**
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER **MCP**

Site Location: **New Bedford**
 STATE: **MA**

Invoice #: **1445505**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (C=Grab C=COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST	Requested Analysis Filtered (Y/N)	Temp in C	Received on	Custody	Sealed Cooler	Samples In/dt
				COMPOSITE START	COMPOSITE END/GAUG									
1	MW-39	DW WT WW PW SL OL WP AR TS OT	WT G	DATE: 01/13/11	TIME: 0945	1	Unpreserved	Analysis Test: PCBs by 3540C	N					
2	MW-38		WT G	DATE: 01/13/11	TIME: 1110	1								
3	MW-37		WT G	DATE: 01/13/11	TIME: 1210	1								
4														
5														
6														
7														
8														
9														
10														
11														
12														

ADDITIONAL COMMENTS: **End of this Sample Run**

RELINQUISHED BY / AFFILIATION: **Charles H Foster** DATE: **01/13/11** TIME: **1630**

ACCEPTED BY / AFFILIATION: **L. Knighten PACE** DATE: **01/13/11** TIME: **1625**

Residual Chlorine (Y/N): **NO**

Pace Project No./ Lab I.D.: **A000493**

SAMPLER NAME AND SIGNATURE: **Charles H Foster**

PRINT Name of SAMPLER: **Charles H Foster** DATE Signed (MM/DD/YY): **01/13/11**

SIGNATURE of SAMPLER: **[Signature]**

ORIGINAL

*Important Note: By Agreeing this form you are accepting Pace's NET 30 day payment terms and agreeing to take changes of 1% per month for late payment and associated costs.

INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep ID	NEA Sample ID	Alt Sample ID	Matrix	pH	Analysis Required	Extract Type / Unit	Percent Total Solids	Sample Amount (g or mL)	Extract Time On - 1	Extract Time Off - 1	Extract Time On - 2	Extract Time Off - 2	Initial for required Clean Up Steps				Date Conc (MM/DD)	Comments
													JCW	Date Acid Cleaned (MM/DD)	Date TBA Cleaned (MM/DD)	Date Florbell Shake (MM/DD)		
1	127084	PBLK-45	Water	5	E PCB W	CLLE	N/A	1000	09:30	11:30	NA	NA	NA	01/18	01/18	10	01/18	
2	127085	LCS-46	Water	5	E PCB W	CLLE	N/A	1000	09:30	11:30	NA	NA	NA	01/18	01/18	10	01/18	
3	127081	11010096-01	Water	6	E PCB W	CLLE	N/A	1080	09:30	11:30	NA	NA	NA	01/18	01/18	10	01/18	
4	127082	11010096-02	Water	6	E PCB W	CLLE	N/A	1070	09:30	11:30	NA	NA	NA	01/18	01/18	10	01/18	
5	127083	11010096-03	Water	6	E PCB W	CLLE	N/A	1070	09:30	11:30	NA	NA	NA	01/18	01/18	10	01/18	

Batch ID: 12992

Prep Date: 01/18/11

Solvent, Surrogate, Spike, and Acid Information

Item	Lot Number	Amount (uL)	Conc (ug/mL)	B	L	LD	S	D	M	K
Toluene	050254	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfuric Acid (Water Lab)	E49039	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2 micron Zefflor membrane	T00955	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mercury	062210	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dichloromethane	DC246	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aroclor 1242 @ 0.5ppm In Hexane	061010B29P62B	1000	0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexane (Dewar) CURRENT	DC965	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10% Florbell (H2O)	101201F	NA		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
0.05ppm TC/MX/0.5ppm DCBP In Hexane	121010B20P162A	1000	0.05/0.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Jacquelyn C Witmer

Analyst Review: Jacquelyn Wilmer

Kelly Sableski

Peer Review: Kelly Sableski

PCB SCREEN SHEET

LRF: 11010095

Batch ID:12992

NEA Sample ID	File ID	Matrix	Prep Date	Wet Weight (g or mL)	Set Volume (mL)	Screen Dilution	Screen Result	Bench Dilution	Dilution Sequence	Final Multiplier	Dilution Analyst
A000483B	GC23B-517-5	Water	01/18/11	1000	10	NA	NA	1	NA	10x	Anthony Mallelo
	GC23F-519-5	Water	01/18/11	1000	10	NA	NA	1	NA	10x	Anthony Mallelo
A000493L	GC23B-517-6	Water	01/18/11	1000	10	NA	NA	1	NA	10x	Anthony Mallelo
	GC23F-519-6	Water	01/18/11	1000	10	NA	NA	1	NA	10x	Anthony Mallelo
A000493	GC23B-517-7	Water	01/18/11	1080	10	NA	0.026425	1	NA	10x	Anthony Mallelo
	GC23F-519-7	Water	01/18/11	1080	10	NA	0.026425	1	NA	10x	Anthony Mallelo
A000494	GC23B-517-8	Water	01/18/11	1070	10	NA	0.011194	1	NA	10x	Anthony Mallelo
	GC23F-519-8	Water	01/18/11	1070	10	NA	0.011194	1	NA	10x	Anthony Mallelo
A000495	GC23B-517-9	Water	01/18/11	1070	10	NA	0.0065696	1	NA	10x	Anthony Mallelo
	GC23F-519-9	Water	01/18/11	1070	10	NA	0.0065696	1	NA	10x	Anthony Mallelo

COMMENTS:

SURROGATE % RECOVERY SUMMARY

4

**2E-1
PCB SURROGATE RECOVERY**

Laboratory Name: NEA - A Division of PACE

SDG: 11010095

ELAP ID No: 11078

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

GC Column (2): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

LRF ID	LAB SAMPLE ID	LAB FILE ID	SURR 1 (Col 1) % REC #	SURR 2 (Col 1) % REC #	SURR 1 (Col 2) % REC #	SURR 2 (Col 2) % REC #	OTHER (1)	OTHER (2)	TOTAL OUT
PBLK-45	AO00493B	GC23F-519-5	104	103					0
PBLK-45	AO00493B	GC23B-517-5			102	113			0
LCS-45	AO00493L	GC23F-519-6	103	104					0
LCS-45	AO00493L	GC23B-517-6			101	114			0
11010095-01	AO00493	GC23F-519-7	107	104					0
11010095-01	AO00493	GC23B-517-7			104	113			0
11010095-02	AO00494	GC23F-519-8	107	106					0
11010095-02	AO00494	GC23B-517-8			103	116			0
11010095-03	AO00495	GC23F-519-9	104	103					0
11010095-03	AO00495	GC23B-517-9			101	111			0

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Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (60.0-140)
 SURR2 = DECACHLOROBIPHENYL (60.0-140)

LABORATORY CONTROL SPIKE SUMMARY

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3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11010095

LCS ID: LCS-45

Blank Sample ID: PBLK-45

LCS File ID: GC23F-519-6

Method Blank File ID: GC23F-519-5

LCS Inj Date: 01/18/2011 18:33:35

Method Blank Inj Date: 01/18/2011 18:00:52

LCS NEA ID No: AO00493L

Method Blank NEA ID No: AO00493B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS ³ PERCENT RECOVERY
Aroclor 1242	0.500	0.486	97.2	70.0-130

Column to be used to flag recovery values

³QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

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COMMENTS: _____

3F-2
LABORATORY CONTROL SPIKE (LCS) RECOVERY

Laboratory Name: NEA - A Division of PACE

ELAP ID No: 11078

SDG No: 11010095

LCS ID: LCS-45

Blank Sample ID: PBLK-45

LCS File ID: GC23B-517-6

Method Blank File ID: GC23B-517-5

LCS Inj Date: 01/18/2011 18:33:39

Method Blank Inj Date: 01/18/2011 18:00:57

LCS NEA ID No: AO00493L

Method Blank NEA ID No: AO00493B

LCS Matrix: Water

Method Blank Matrix: Water

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS PERCENT RECOVERY #	QC LIMITS ¹ PERCENT RECOVERY
Aroclor 1242	0.500	0.504	101	70.0-130

Column to be used to flag recovery values

¹QC Limits based upon laboratory defaults.

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits.

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COMMENTS: _____

METHOD BLANK SUMMARY

**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11010095</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-45</u>
Matrix: <u>Water</u>	Method Blank Nea ID No: <u>AO00493B</u>
Instrument ID: <u>GC23F</u>	Lab File ID: <u>GC23F-519-5</u>
Extraction Type: <u>Continuous Liquid-Liquid Extraction</u>	Date Extracted: <u>01/18/2011</u>
GC Column (1): <u>Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>01/18/2011</u>
	Time Analyzed: <u>18:00:52</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-45(LAB CONTROL SPIKE)	AO00493L	GC23F-519-6	01/18/2011 18:33:35
MW-39	AO00493	GC23F-519-7	01/18/2011 19:06:19
MW-38	AO00494	GC23F-519-8	01/18/2011 19:39:02
MW-37	AO00495	GC23F-519-9	01/18/2011 20:11:46

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**4C-1
PCB METHOD BLANK SUMMARY**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11010095</u>
ELAP ID No: <u>11078</u>	Blank Sample ID: <u>PBLK-45</u>
Matrix: <u>Water</u>	Method Blank Nea ID No: <u>AO00493B</u>
Instrument ID: <u>GC23B</u>	Lab File ID: <u>GC23B-517-5</u>
Extraction Type: <u>Continuous Liquid-Liquid Extraction</u>	Date Extracted: <u>01/18/2011</u>
GC Column (1): <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Date Analyzed: <u>01/18/2011</u>
	Time Analyzed: <u>18:00:57</u>

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
LCS-45(LAB CONTROL SPIKE)	AO00493L	GC23B-517-6	01/18/2011 18:33:39
MW-39	AO00493	GC23B-517-7	01/18/2011 19:06:23
MW-38	AO00494	GC23B-517-8	01/18/2011 19:39:06
MW-37	AO00495	GC23B-517-9	01/18/2011 20:11:50

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SAMPLE ANALYSIS DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11010095</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11010095-01</u>
Matrix:	<u>Water</u>	Client ID:	<u>MW-39</u>
Sample wt(Dry)/vol:	<u>1080 mL</u>	Lab Sample ID:	<u>AO00493</u>
Percent Moisture:	<u>100</u>	Date Received:	<u>01/14/2011</u>
Extraction:	<u>Continuous Liquid-Liquid Extraction</u>	Date Extracted:	<u>01/18/2011</u>
Conc. Extract Volume:	<u>10000 uL</u>	Date Analyzed:	<u>01/18/2011</u>
Method:	<u>SW-846 Method 8082</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC23F-519-7

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC23B-517-7

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0500	U
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11010095</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11010095-02</u>
Matrix:	<u>Water</u>	Client ID:	<u>MW-38</u>
Sample wt(Dry)/vol:	<u>1070 mL</u>	Lab Sample ID:	<u>AO00494</u>
Percent Moisture:	<u>100</u>	Date Received:	<u>01/14/2011</u>
Extraction:	<u>Continuous Liquid-Liquid Extraction</u>	Date Extracted:	<u>01/18/2011</u>
Conc. Extract Volume:	<u>10000 uL</u>	Date Analyzed:	<u>01/18/2011</u>
Method:	<u>SW-846 Method 8082</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC23F-519-8

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Injection Volume: 1.0 uL
 Lab File ID: GC23B-517-8

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0500	U
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.



**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11010095</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>11010095-03</u>
Matrix:	<u>Water</u>	Client ID:	<u>MW-37</u>
Sample wt(Dry)/vol:	<u>1070 mL</u>	Lab Sample ID:	<u>AO00495</u>
Percent Moisture:	<u>100</u>	Date Received:	<u>01/14/2011</u>
Extraction:	<u>Continuous Liquid-Liquid Extraction</u>	Date Extracted:	<u>01/18/2011</u>
Conc. Extract Volume:	<u>10000 uL</u>	Date Analyzed:	<u>01/18/2011</u>
Method:	<u>SW-846 Method 8082</u>	Dilution Factor:	<u>1</u>
		Sulfur Cleanup:	<u>YES</u>

Column 1 Information:

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC23F-519-9

Column 2 Information:

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Injection Volume: 1.0 uL
Lab File ID: GC23B-517-9

Column Number	CAS NO	COMPOUND NAME	CONCENTRATION	
			UG/L	Q
1	12674-11-2	Aroclor 1016	0.0500	U
1	11104-28-2	Aroclor 1221	0.0500	U
1	11141-16-5	Aroclor 1232	0.0500	U
1	53469-21-9	Aroclor 1242	0.0500	U
1	12672-29-6	Aroclor 1248	0.0500	U
1	11097-69-1	Aroclor 1254	0.0500	U
1	11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

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ANALYTICAL SEQUENCE (GC23F)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11010095

ELAP ID No: 11078

Instrument ID: GC23F

Init. Calib. Date(s): 10/22/10,10/23/10

GC Column (1): Agilent J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION
TCMX RT: 6.21 DCBP RT: 26.16

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	102216A	GC23F-466-10	10/22/2010 19:58:32		
02	A1016 10 PPB	102216B	GC23F-466-11	10/22/2010 20:31:15		
03	A1016 20 PPB	102216C	GC23F-466-12	10/22/2010 21:03:51		
04	A1016 50 PPB	102216D	GC23F-466-13	10/22/2010 21:36:28		
05	A1016 100 PPB	102216E	GC23F-466-14	10/22/2010 22:09:11		
06	A1221 5 PPB	102221A	GC23F-466-15	10/22/2010 22:41:48		
07	A1221 10 PPB	102221B	GC23F-466-16	10/22/2010 23:14:30		
08	A1221 20 PPB	102221C	GC23F-466-17	10/22/2010 23:47:06		
09	A1221 50 PPB	102221D	GC23F-466-18	10/23/2010 00:19:43		
10	A1221 100 PPB	102221E	GC23F-466-19	10/23/2010 00:52:20		
11	A1232 5 PPB	102232A	GC23F-466-20	10/23/2010 01:25:03		
12	A1232 10 PPB	102232B	GC23F-466-21	10/23/2010 01:57:46		
13	A1232 20 PPB	102232C	GC23F-466-22	10/23/2010 02:30:28		
14	A1232 50 PPB	102232D	GC23F-466-23	10/23/2010 03:03:05		
15	A1232 100 PPB	102232E	GC23F-466-24	10/23/2010 03:35:48		
16	A1242 5 PPB	102242A	GC23F-466-25	10/23/2010 04:08:31		
17	A1242 10 PPB	102242B	GC23F-466-26	10/23/2010 04:41:07		
18	A1242 20 PPB	102242C	GC23F-466-27	10/23/2010 05:13:43		
19	A1242 50 PPB	102242D	GC23F-466-28	10/23/2010 05:46:26		
20	A1242 100 PPB	102242E	GC23F-466-29	10/23/2010 06:19:09		
21	A1248 5 PPB	102248A	GC23F-466-30	10/23/2010 06:51:51		
22	A1248 10 PPB	102248B	GC23F-466-31	10/23/2010 07:24:34		
23	A1248 20 PPB	102248C	GC23F-466-32	10/23/2010 07:57:16		
24	A1248 50 PPB	102248D	GC23F-466-33	10/23/2010 08:29:59		
25	A1248 100 PPB	102248E	GC23F-466-34	10/23/2010 09:02:42		
26	A1254 5 PPB	102254A	GC23F-466-35	10/23/2010 09:35:23	6.21	26.17
27	A1254 10 PPB	102254B	GC23F-466-36	10/23/2010 10:08:06	6.21	26.16
28	A1254 20 PPB	102254C	GC23F-466-37	10/23/2010 10:40:44	6.21	26.17
29	A1254 50 PPB	102254D	GC23F-466-38	10/23/2010 11:13:26	6.20	26.16
30	A1254 100 PPB	102254E	GC23F-466-39	10/23/2010 11:46:03	6.21	26.16
31	A1260 5 PPB	102260A	GC23F-466-40	10/23/2010 12:18:46		
32	A1260 10 PPB	102260B	GC23F-466-41	10/23/2010 12:51:23		
33	A1260 20 PPB	102260C	GC23F-466-42	10/23/2010 13:24:06		
34	A1260 50 PPB	102260D	GC23F-466-43	10/23/2010 13:56:47		
35	A1260 100 PPB	102260E	GC23F-466-44	10/23/2010 14:29:28		
36	A1016 50 PPB	CS161022A	GC23F-466-46	10/23/2010 15:34:40	6.21	26.18
37	A1221 50 PPB	CS211022A	GC23F-466-47	10/23/2010 16:07:24	6.20	26.16
38	A1232 50 PPB	CS321022A	GC23F-466-48	10/23/2010 16:40:01	6.21	26.16

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA)

Print Date: 2/14/2011
Lims Version: 5.0.6.3

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11010095

ELAP ID No: 11078

Instrument ID: GC23F

Init. Calib. Date(s): 10/22/10,10/23/10

GC Column (1): Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.21</u>	DCBP RT: <u>26.16</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
39 A1242 50 PPB	CS421022A	GC23F-466-49	10/23/2010 17:12:42	6.21	26.16
40 A1248 50 PPB	CS481022A	GC23F-466-50	10/23/2010 17:45:23	6.21	26.16
41 A1254 50 PPB	CS541022D	GC23F-466-51	10/23/2010 18:18:06	6.20	26.16
42 A1260 50 PPB	CS601022A	GC23F-466-52	10/23/2010 18:50:42	6.20	26.16
43 A1221 50 PPB	CS210118A	GC23F-519-3	01/18/2011 13:14:56	6.20	26.15
44 PBLK-45(METHOD BLANK)	AO00493B	GC23F-519-5	01/18/2011 18:00:52	6.21	26.15
45 LCS-45(LAB CONTROL SPIKE)	AO00493L	GC23F-519-6	01/18/2011 18:33:35	6.21	26.15
46 MW-39	AO00493	GC23F-519-7	01/18/2011 19:06:19	6.21	26.16
47 MW-38	AO00494	GC23F-519-8	01/18/2011 19:39:02	6.21	26.16
48 MW-37	AO00495	GC23F-519-9	01/18/2011 20:11:46	6.21	26.16
49 A1232 50 PPB	CS320118A	GC23F-519-10	01/18/2011 20:44:29	6.21	26.16

8

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA)

Print Date: 2/14/2011
Lims Version : 5.0.5.3

INITIAL CALIBRATION DATA (GC23F)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE

SDG NO: 11010095

ELAP ID No: 11078

Date(s) Analyzed: 10/22/10, 10/23/10

Instrument ID: GC23F

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC23F-466-10	102216A	5.00	135.118		
	GC23F-466-11	102216B	10.0	131.062		
	GC23F-466-12	102216C	20.0	126.606		
	GC23F-466-13	102216D	50.0	121.329		
	GC23F-466-14	102216E	100	121.337	127.090	4.8
Aroclor 1221	GC23F-466-15	102221A	5.00	30.344		
	GC23F-466-16	102221B	10.0	31.605		
	GC23F-466-17	102221C	20.0	30.275		
	GC23F-466-18	102221D	50.0	29.982		
	GC23F-466-19	102221E	100	28.272	30.095	4.0
Aroclor 1232	GC23F-466-20	102232A	5.00	58.704		
	GC23F-466-21	102232B	10.0	61.468		
	GC23F-466-22	102232C	20.0	61.170		
	GC23F-466-23	102232D	50.0	56.917		
	GC23F-466-24	102232E	100	57.184	59.089	3.6
Aroclor 1242	GC23F-466-25	102242A	5.00	105.234		
	GC23F-466-26	102242B	10.0	110.109		
	GC23F-466-27	102242C	20.0	105.103		
	GC23F-466-28	102242D	50.0	99.531		
	GC23F-466-29	102242E	100	99.113	103.818	4.4
Aroclor 1248	GC23F-466-30	102248A	5.00	118.731		
	GC23F-466-31	102248B	10.0	115.106		
	GC23F-466-32	102246C	20.0	113.089		
	GC23F-466-33	102248D	50.0	107.786		
	GC23F-466-34	102248E	100	106.465	112.235	4.5
Aroclor 1254	GC23F-466-35	102254A	5.00	215.717		
	GC23F-466-36	102254B	10.0	193.196		
	GC23F-466-37	102254C	20.0	190.894		
	GC23F-466-38	102254D	50.0	183.376		
	GC23F-466-39	102254E	100	184.898	193.616	6.7
Aroclor 1260	GC23F-466-40	102260A	5.00	309.315		
	GC23F-466-41	102260B	10.0	320.120		
	GC23F-466-42	102260C	20.0	300.819		
	GC23F-466-43	102260D	50.0	296.896		
	GC23F-466-44	102280E	100	292.331	303.856	3.6
TCMX	GC23F-466-35	102254A	1.00	777.078		
	GC23F-466-36	102254B	2.50	728.013		
	GC23F-466-37	102254C	4.00	720.862		
	GC23F-466-38	102254D	5.00	728.608		
	GC23F-466-39	102254E	8.00	706.027	732.117	3.7

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE

SDG NO: 11010095

ELAP ID No: 11078

Date(s) Analyzed: 10/22/10, 10/23/10

Instrument ID: GC23F

GC Column: Agilent J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
DCBP	GC23F-466-35	102254A	10.0	812.660		
	GC23F-466-36	102254B	25.0	730.343		
	GC23F-466-37	102254C	40.0	720.025		
	GC23F-466-38	102254D	50.0	713.121		
	GC23F-466-39	102254E	80.0	673.798	729.989	7.0

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**INITIAL/CONTINUING CALIBRATION DATA
(GC23F)**

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC23F
 GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11010095

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC23F-466-46	CS161022A	ICV	47.2	50	-5.70	10/23/2010 15:34:40
Aroclor 1221	GC23F-466-47	CS211022A	ICV	51.8	50	3.60	10/23/2010 16:07:24
Aroclor 1232	GC23F-466-48	CS321022A	ICV	47.0	50	-5.94	10/23/2010 16:40:01
Aroclor 1242	GC23F-466-49	CS421022A	ICV	45.6	50	-8.76	10/23/2010 17:12:42
Aroclor 1248	GC23F-466-50	CS481022A	ICV	48.1	50	-3.89	10/23/2010 17:45:23
Aroclor 1254	GC23F-466-51	CS541022D	ICV	49.4	50	-1.29	10/23/2010 18:18:06
Aroclor 1260	GC23F-466-52	CS601022A	ICV	45.3	50	-9.40	10/23/2010 16:50:42
Aroclor 1221	GC23F-519-3	CS210118A	CCV	52.6	50	5.21	01/18/2011 13:14:56
Aroclor 1232	GC23F-519-10	CS320118A	CCV	54.7	50	9.46	01/18/2011 20:44:29

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC23F
 GC Column: Agilent J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

SGD NO: 11010095

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC23F-466-46	CS161022A	ICV	1	7.83	7.75	7.91
		CS161022A	ICV	2	8.22	8.14	8.30
		CS161022A	ICV	3	8.86	8.78	8.94
		CS161022A	ICV	4	9.07	8.99	9.15
		CS161022A	ICV	5	9.22	9.14	9.30
Aroclor 1221	GC23F-466-47	CS211022A	ICV	1	4.78	4.70	4.86
		CS211022A	ICV	2	6.04	5.96	6.12
		CS211022A	ICV	3	6.80	6.52	6.68
		CS211022A	ICV	4	6.80	6.72	6.88
		CS211022A	ICV	5	6.92	6.84	7.00
Aroclor 1232	GC23F-466-48	CS321022A	ICV	1	6.92	6.84	7.00
		CS321022A	ICV	2	8.21	8.13	8.29
		CS321022A	ICV	3	8.85	8.77	8.93
		CS321022A	ICV	4	9.07	8.99	9.15
		CS321022A	ICV	5	9.21	9.13	9.29
Aroclor 1242	GC23F-466-49	CS421022A	ICV	1	7.83	7.75	7.91
		CS421022A	ICV	2	8.21	8.13	8.29
		CS421022A	ICV	3	8.86	8.78	8.94
		CS421022A	ICV	4	9.07	8.99	9.15
		CS421022A	ICV	5	9.21	9.13	9.29
Aroclor 1248	GC23F-466-50	CS481022A	ICV	1	9.80	9.72	9.88
		CS481022A	ICV	2	10.47	10.39	10.55
		CS481022A	ICV	3	11.12	11.04	11.20
		CS481022A	ICV	4	11.28	11.20	11.36
		CS481022A	ICV	5	11.69	11.61	11.77
Aroclor 1254	GC23F-466-51	CS541022D	ICV	1	12.00	11.92	12.08
		CS541022D	ICV	2	12.67	12.59	12.75
		CS541022D	ICV	3	12.95	12.87	13.03
		CS541022D	ICV	4	14.44	14.36	14.52
		CS541022D	ICV	5	15.27	15.19	15.35
Aroclor 1260	GC23F-466-52	CS801022A	ICV	1	15.27	15.19	15.35
		CS601022A	ICV	2	17.53	17.45	17.61
		CS601022A	ICV	3	18.46	18.38	18.54
		CS601022A	ICV	4	19.26	19.18	19.34
		CS601022A	ICV	5	21.53	21.45	21.61

ICV = Initial Calibration Verification
 CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11010095

ELAP ID No: 11078

Instrument ID: GC23F

GC Column: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1221	GC23F-519-3	CS210118A	CCV	1	4.78	4.70	4.86
		CS210118A	CCV	2	6.03	5.96	6.12
		CS210118A	CCV	3	6.60	6.52	6.68
		CS210118A	CCV	4	6.80	6.72	6.88
		CS210118A	CCV	5	6.92	6.84	7.00
Aroclor 1232	GC23F-519-10	CS320118A	CCV	1	6.92	6.84	7.00
		CS320118A	CCV	2	8.21	8.13	8.29
		CS320118A	CCV	3	8.86	8.77	8.93
		CS320118A	CCV	4	9.07	8.99	9.15
		CS320118A	CCV	5	9.21	9.13	9.29

ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

ANALYTICAL SEQUENCE (GC23B)

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11010095

ELAP ID No: 11078

Instrument ID: GC23B

Init. Calib. Date(s): 10/22/10,10/23/10

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION

TCMX RT: 8.52

DCBP RT: 27.41

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (+/-0.05 min)	DCBP RT # (+/-0.10 min)
01	A1016 5 PPB	102216A	GC23B-464-10	10/22/2010 19:58:36		
02	A1016 10 PPB	102216B	GC23B-464-11	10/22/2010 20:31:19		
03	A1016 20 PPB	102216C	GC23B-464-12	10/22/2010 21:03:55		
04	A1016 50 PPB	102216D	GC23B-464-13	10/22/2010 21:36:32		
05	A1016 100 PPB	102216E	GC23B-464-14	10/22/2010 22:09:15		
06	A1221 5 PPB	102221A	GC23B-464-15	10/22/2010 22:41:52		
07	A1221 10 PPB	102221B	GC23B-464-16	10/22/2010 23:14:34		
08	A1221 20 PPB	102221C	GC23B-464-17	10/22/2010 23:47:10		
09	A1221 50 PPB	102221D	GC23B-464-18	10/23/2010 00:19:47		
10	A1221 100 PPB	102221E	GC23B-464-19	10/23/2010 00:52:24		
11	A1232 5 PPB	102232A	GC23B-464-20	10/23/2010 01:25:07		
12	A1232 10 PPB	102232B	GC23B-464-21	10/23/2010 01:57:50		
13	A1232 20 PPB	102232C	GC23B-464-22	10/23/2010 02:30:32		
14	A1232 50 PPB	102232D	GC23B-464-23	10/23/2010 03:03:09		
15	A1232 100 PPB	102232E	GC23B-464-24	10/23/2010 03:35:52		
16	A1242 5 PPB	102242A	GC23B-464-25	10/23/2010 04:08:35		
17	A1242 10 PPB	102242B	GC23B-464-26	10/23/2010 04:41:11		
18	A1242 20 PPB	102242C	GC23B-464-27	10/23/2010 05:13:47		
19	A1242 50 PPB	102242D	GC23B-464-28	10/23/2010 05:46:30		
20	A1242 100 PPB	102242E	GC23B-464-29	10/23/2010 06:19:13		
21	A1248 5 PPB	102248A	GC23B-464-30	10/23/2010 06:51:55		
22	A1248 10 PPB	102248B	GC23B-464-31	10/23/2010 07:24:38		
23	A1248 20 PPB	102248C	GC23B-464-32	10/23/2010 07:57:20		
24	A1248 50 PPB	102248D	GC23B-464-33	10/23/2010 08:30:03		
25	A1248 100 PPB	102248E	GC23B-464-34	10/23/2010 09:02:46		
26	A1254 5 PPB	102254A	GC23B-464-35	10/23/2010 09:35:27	6.52	27.41
27	A1254 10 PPB	102254B	GC23B-464-36	10/23/2010 10:08:10	6.52	27.41
28	A1254 20 PPB	102254C	GC23B-464-37	10/23/2010 10:40:48	6.52	27.41
29	A1254 50 PPB	102254D	GC23B-464-38	10/23/2010 11:13:30	6.52	27.40
30	A1254 100 PPB	102254E	GC23B-464-39	10/23/2010 11:46:07	6.52	27.41
31	A1260 5 PPB	102260A	GC23B-464-40	10/23/2010 12:18:50		
32	A1260 10 PPB	102260B	GC23B-464-41	10/23/2010 12:51:27		
33	A1260 20 PPB	102260C	GC23B-464-42	10/23/2010 13:24:10		
34	A1260 50 PPB	102260D	GC23B-464-43	10/23/2010 13:56:51		
35	A1260 100 PPB	102260E	GC23B-464-44	10/23/2010 14:29:32		
36	A1016 50 PPB	CS161022A	GC23B-464-46	10/23/2010 15:34:44	6.53	27.42
37	A1221 50 PPB	CS211022A	GC23B-464-47	10/23/2010 16:07:28	6.52	27.41
38	A1232 50 PPB	CS321022A	GC23B-464-48	10/23/2010 16:40:05	6.52	27.41

Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(NEA)

Print Date: 2/14/2011

Lims Version : 5.0.5.3

**8-D-1
PCB ANALYTICAL SEQUENCE**

Laboratory Name: NEA - A Division of PACE

SDG No: 11010095

ELAP ID No: 11078

Instrument ID: GC23B

Init. Calib. Date(s): 10/22/10,10/23/10

GC Column (1): Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION					
			TCMX RT: <u>6.52</u>	DCBP RT: <u>27.41</u>	
CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED	TCMX RT # (±0.05 min)	DCBP RT # (±0.10 min)
39 A1242 50 PPB	CS421022A	GC23B-464-49	10/23/2010 17:12:46	6.52	27.41
40 A1248 50 PPB	CS481022A	GC23B-464-50	10/23/2010 17:45:27	6.53	27.41
41 A1254 50 PPB	CS541022D	GC23B-464-51	10/23/2010 18:18:10	6.52	27.40
42 A1260 50 PPB	CS601022A	GC23B-464-52	10/23/2010 18:50:46	6.52	27.40
43 A1221 50 PPB	CS210118A	GC23B-517-3	01/18/2011 13:15:00	6.52	27.43
44 PBLK-45(METHOD BLANK)	AO00493B	GC23B-517-5	01/18/2011 18:00:57	6.52	27.44
45 LCS-45(LAB CONTROL SPIKE)	AO00493L	GC23B-517-6	01/18/2011 18:33:39	6.52	27.44
46 MW-39	AO00493	GC23B-517-7	01/18/2011 19:06:23	6.53	27.45
47 MW-38	AO00494	GC23B-517-8	01/18/2011 19:39:06	6.53	27.44
48 MW-37	AO00495	GC23B-517-9	01/18/2011 20:11:50	6.53	27.44
49 A1232 50 PPB	CS320118A	GC23B-517-10	01/18/2011 20:44:33	6.53	27.44

Column used to flag surrogate retention times outside expected range.

INITIAL CALIBRATION DATA (GC23B)

6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE

SDG NO: 11010095

ELAP ID No: 11078

Date(s) Analyzed: 10/22/10, 10/23/10

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
Aroclor 1016	GC23B-464-10	102216A	5.00	159.397		
	GC23B-464-11	102216B	10.0	166.940		
	GC23B-464-12	102216C	20.0	166.546		
	GC23B-464-13	102216D	50.0	160.492		
	GC23B-464-14	102216E	100	163.697	163.414	2.1
Aroclor 1221	GC23B-464-15	102221A	5.00	39.265		
	GC23B-464-16	102221B	10.0	41.668		
	GC23B-464-17	102221C	20.0	40.061		
	GC23B-464-18	102221D	50.0	41.080		
	GC23B-464-19	102221E	100	39.354	40.286	2.6
Aroclor 1232	GC23B-464-20	102232A	5.00	79.029		
	GC23B-464-21	102232B	10.0	78.878		
	GC23B-464-22	102232C	20.0	82.605		
	GC23B-464-23	102232D	50.0	79.261		
	GC23B-464-24	102232E	100	78.901	79.735	2.0
Aroclor 1242	GC23B-464-25	102242A	5.00	139.622		
	GC23B-464-26	102242B	10.0	146.266		
	GC23B-464-27	102242C	20.0	149.298		
	GC23B-464-28	102242D	50.0	135.730		
	GC23B-464-29	102242E	100	137.087	141.601	4.2
Aroclor 1248	GC23B-464-30	102248A	5.00	163.405		
	GC23B-464-31	102248B	10.0	160.827		
	GC23B-464-32	102248C	20.0	152.117		
	GC23B-464-33	102248D	50.0	149.868		
	GC23B-464-34	102248E	100	140.994	153.442	5.9
Aroclor 1254	GC23B-464-35	102254A	5.00	222.303		
	GC23B-464-36	102254B	10.0	238.724		
	GC23B-464-37	102254C	20.0	245.384		
	GC23B-464-38	102254D	50.0	241.603		
	GC23B-464-39	102254E	100	242.001	238.003	3.8
Aroclor 1260	GC23B-464-40	102260A	5.00	386.865		
	GC23B-464-41	102260B	10.0	385.147		
	GC23B-464-42	102260C	20.0	355.999		
	GC23B-464-43	102260D	50.0	370.108		
	GC23B-464-44	102260E	100	366.758	372.975	3.5
TCMX	GC23B-464-35	102254A	1.00	1001.447		
	GC23B-464-36	102254B	2.50	978.223		
	GC23B-464-37	102254C	4.00	986.090		
	GC23B-464-38	102254D	5.00	991.043		
	GC23B-464-39	102254E	6.00	949.907	981.342	2.0

FORM VI-CLP-PCB(NEA)

Print Date: 2/14/2011
Lina Version: 5.0.5.3

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6F-1
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC23B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11010095
 Date(s) Analyzed: 10/22/10, 10/23/10

COMPOUND	LAB FILE ID	NEA SAMPLE ID	AMOUNT (ppb)	TOTAL ¹ RF	MEAN RF	% RSD
DCBP	GC23B-464-35	102254A	10.0	829.701		
	GC23B-464-36	102254B	25.0	790.412		
	GC23B-464-37	102254C	40.0	786.404		
	GC23B-464-38	102254D	50.0	789.401		
	GC23B-464-39	102254E	80.0	745.187	786.221	3.6

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECAChLOROBIPHENYL

¹ Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

INITIAL/CONTINUING CALIBRATION DATA (GC23B)

7E-1
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 Instrument ID: GC23B
 GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

SDG NO: 11010095

COMPOUND	LAB FILE ID	NEA SAMPLE ID	CALIB TYPE	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	PERCENT DIFFERENCE	DATE / TIME ANALYZED
Aroclor 1016	GC23B-464-46	CS161022A	ICV	51.3	50	2.60	10/23/2010 15:34:44
Aroclor 1221	GC23B-464-47	CS211022A	ICV	51.4	50	2.73	10/23/2010 16:07:28
Aroclor 1232	GC23B-464-48	CS321022A	ICV	47.6	50	-4.86	10/23/2010 16:40:05
Aroclor 1242	GC23B-464-49	CS421022A	ICV	46.9	50	-6.18	10/23/2010 17:12:46
Aroclor 1248	GC23B-464-50	CS481022A	ICV	51.0	50	1.90	10/23/2010 17:45:27
Aroclor 1254	GC23B-464-51	CS541022D	ICV	50.7	50	1.42	10/23/2010 18:18:10
Aroclor 1260	GC23B-464-52	CS601022A	ICV	46.4	50	-7.30	10/23/2010 18:50:46
Aroclor 1221	GC23B-517-3	CS210118A	CCV	54.7	50	9.47	01/18/2011 13:15:00
Aroclor 1232	GC23B-517-10	CS320118A	CCV	52.4	50	4.79	01/18/2011 20:44:33

% Difference must be less than or equal to +/- 15 percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11010095

ELAP ID No: 11078

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1016	GC23B-464-46	CS161022A	ICV	1	8.15	8.07	8.23
		CS161022A	ICV	2	8.56	8.46	8.64
		CS161022A	ICV	3	9.17	9.09	9.25
		CS161022A	ICV	4	9.40	9.32	9.48
		CS161022A	ICV	5	9.58	9.50	9.66
Aroclor 1221	GC23B-464-47	CS211022A	ICV	1	5.32	5.24	5.40
		CS211022A	ICV	2	6.47	6.39	6.55
		CS211022A	ICV	3	6.96	6.88	7.04
		CS211022A	ICV	4	7.17	7.09	7.25
		CS211022A	ICV	5	7.29	7.21	7.37
Aroclor 1232	GC23B-464-48	CS321022A	ICV	1	7.29	7.21	7.37
		CS321022A	ICV	2	8.56	8.48	8.64
		CS321022A	ICV	3	9.17	9.09	9.25
		CS321022A	ICV	4	9.39	9.31	9.47
		CS321022A	ICV	5	9.58	9.50	9.66
Aroclor 1242	GC23B-464-49	CS421022A	ICV	1	8.15	8.07	8.23
		CS421022A	ICV	2	8.56	8.48	8.64
		CS421022A	ICV	3	9.17	9.09	9.25
		CS421022A	ICV	4	9.40	9.32	9.46
		CS421022A	ICV	5	9.58	9.50	9.66
Aroclor 1248	GC23B-464-50	CS481022A	ICV	1	10.10	10.02	10.18
		CS481022A	ICV	2	10.83	10.75	10.91
		CS481022A	ICV	3	11.44	11.36	11.52
		CS481022A	ICV	4	11.65	11.57	11.73
		CS481022A	ICV	5	12.12	12.04	12.20
Aroclor 1254	GC23B-464-51	CS541022D	ICV	1	12.30	12.22	12.38
		CS541022D	ICV	2	13.07	12.99	13.15
		CS541022D	ICV	3	13.37	13.29	13.45
		CS541022D	ICV	4	14.84	14.76	14.92
		CS541022O	ICV	5	15.71	15.63	15.79
Aroclor 1260	GC23B-464-52	CS601022A	ICV	1	15.70	15.62	15.78
		CS601022A	ICV	2	17.97	17.89	18.05
		CS601022A	ICV	3	19.16	19.08	19.24
		CS601022A	ICV	4	19.80	19.72	19.88
		CS601022A	ICV	5	22.43	22.35	22.51

ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

7E-2
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: NEA - A Division of PACE

SGD NO: 11010095

ELAP ID No: 11078

Instrument ID: GC23B

GC Column: Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm

COMPOUND	Lab File ID	NEA Sample ID	CALIB TYPE	PEAK	RT	RT WINDOW	
						FROM	TO
Aroclor 1221	GC23B-517-3	CS210118A	CCV	1	5.32	5.24	5.40
		CS210118A	CCV	2	6.48	6.39	6.55
		CS210118A	CCV	3	6.96	6.88	7.04
		CS210118A	CCV	4	7.17	7.09	7.25
		CS210118A	CCV	5	7.29	7.21	7.37
Aroclor 1232	GC23B-517-10	CS320118A	CCV	1	7.29	7.21	7.37
		CS320118A	CCV	2	8.56	8.48	8.64
		CS320118A	CCV	3	9.17	9.09	9.25
		CS320118A	CCV	4	9.40	9.31	9.47
		CS320118A	CCV	5	9.58	9.50	9.66

ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

QC SAMPLE RAW DATA

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11010095</u>
ELAP ID No: <u>11078</u>	LRP ID: <u>PBLK-45</u>
Matrix: <u>Water</u>	Client ID: <u>METHOD BLANK</u>
Sample wt(Dry)/vol: <u>1000 mL</u>	Lab Sample ID: <u>A000493B</u>
Percent Moisture: <u>100</u>	Lab File ID: <u>GC23F-519-5</u>
Extraction: <u>Continuous Liquid-Liquid Extraction</u>	Date Received: _____
Conc. Extract Volume: <u>10000 uL</u>	Date Extracted: <u>01/18/2011</u>
Injection Volume: <u>1.0 uL</u>	Date Analyzed: <u>01/18/2011</u>
Method: <u>SW-846 Method 8082</u>	Dilution Factor: <u>1</u>
GC Column: <u>Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11010095</u>
ELAP ID No:	<u>11078</u>	LRP ID:	<u>PBLK-45</u>
Matrix:	<u>Water</u>	Client ID:	<u>METHOD BLANK</u>
Sample wt(Dry)/vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AO00493B</u>
Percent Moisture:	<u>100</u>	Lab File ID:	<u>GC23B-517-5</u>
Extraction:	<u>Continuous Liquid-Liquid Extraction</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>10000 uL</u>	Date Extracted:	<u>01/18/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>01/18/2011</u>
Method:	<u>SW-846 Method 8082</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zorbil ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.0500	U
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11010095</u>
ELAP ID No: <u>11078</u>	LRP ID: <u>LCS-45</u>
Matrix: <u>Water</u>	Client ID: <u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol: <u>1000 mL</u>	Lab Sample ID: <u>A000493L</u>
Percent Moisture: <u>100</u>	Lab File ID: <u>GC23F-519-6</u>
Extraction: <u>Continuous Liquid-Liquid Extraction</u>	Date Received: _____
Conc. Extract Volume: <u>10000 µL</u>	Date Extracted: <u>01/18/2011</u>
Injection Volume: <u>1.0 µL</u>	Date Analyzed: <u>01/18/2011</u>
Method: <u>SW-846 Method 8082</u>	Dilution Factor: <u>1</u>
GC Column: <u>Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup: <u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.486	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

**1D-1
PCB ANALYSIS DATA SHEET**

Laboratory Name:	<u>NEA - A Division of PACE</u>	SDG No:	<u>11010095</u>
ELAP ID No:	<u>11078</u>	LRF ID:	<u>LCS-45</u>
Matrix:	<u>Water</u>	Client ID:	<u>LAB CONTROL SPIKE</u>
Sample wt(Dry)/vol:	<u>1000 mL</u>	Lab Sample ID:	<u>AO00493L</u>
Percent Moisture:	<u>100</u>	Lab File ID:	<u>GC23B-517-6</u>
Extraction:	<u>Continuous Liquid-Liquid Extraction</u>	Date Received:	<u></u>
Conc. Extract Volume:	<u>10000 uL</u>	Date Extracted:	<u>01/18/2011</u>
Injection Volume:	<u>1.0 uL</u>	Date Analyzed:	<u>01/18/2011</u>
Method:	<u>SW-846 Method 8082</u>	Dilution Factor:	<u>1</u>
GC Column:	<u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>	Sulfur Cleanup:	<u>YES</u>

CAS NO	COMPOUND NAME	CONCENTRATION UG/L	Q
12674-11-2	Aroclor 1016	0.0500	U
11104-28-2	Aroclor 1221	0.0500	U
11141-16-5	Aroclor 1232	0.0500	U
53469-21-9	Aroclor 1242	0.504	
12672-29-6	Aroclor 1248	0.0500	U
11097-69-1	Aroclor 1254	0.0500	U
11096-82-5	Aroclor 1260	0.0500	U

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

10-B
PCB Identification Summary

Laboratory Name: NEA - A Division of PACE
 ELAP ID No: 11078
 LRF Sample ID: LCS-45
 Instrument 1 ID: GC23F
 Date Analyzed: 01/18/2011 6:33:35 PM
 GC Column 1: Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 1: GC23F-519-6
 Matrix: Water

SDG No: 11010095
 Client ID: LCS-45(LAB CONTROL SPIKE)
 Lab Sample ID: AO00493L
 Instrument 2 ID: GC23B
 Date Analyzed: 01/18/2011 6:33:39 PM
 GC Column 2: Phenomenex, Zetron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
 Lab File ID 2: GC23B-517-6

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1016	1	1	7.82	7.75	7.91			
		2	8.21	8.14	8.30			
		3	8.85	8.78	8.94			
		4	9.07	8.99	9.15			
		5	9.21	9.14	9.30			
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66			
Aroclor 1221	1	1	NA	4.70	4.86			
		2	NA	5.96	6.12			
		3	NA	6.52	6.68			
		4	NA	6.72	6.88			
		5	NA	6.84	7.00			
	2	1	NA	5.24	5.40			
		2	NA	6.39	6.55			
		3	NA	6.88	7.04			
		4	NA	7.09	7.25			
		5	NA	7.21	7.37			
Aroclor 1232	1	1	NA	6.84	7.00			
		2	8.21	8.13	8.29			
		3	8.85	8.77	8.93			
		4	9.07	8.99	9.15			
		5	9.21	9.13	9.29			
	2	1	NA	7.21	7.37			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.31	9.47			
		5	9.58	9.50	9.66			
Aroclor 1242	1	1	7.82	7.75	7.91			
		2	8.21	8.13	8.29			
		3	8.85	8.78	8.94			
		4	9.07	8.99	9.15			
		5	9.21	9.13	9.29	0.486		
	2	1	8.15	8.07	8.23			
		2	8.56	8.48	8.64			
		3	9.17	9.09	9.25			
		4	9.40	9.32	9.48			
		5	9.58	9.50	9.66	0.504	3.64	

Relative Percent Difference Limit = 40.0%

FORM 10-CLP-PCB(NEA)

Print Date: 2/14/2011
Lims Version: 5.0.5.3

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10-B
PCB Identification Summary

Laboratory Name: <u>NEA - A Division of PACE</u>	SDG No: <u>11010095</u>
ELAP ID No: <u>11078</u>	Client ID: <u>LCS-45(LAB CONTROL SPIKE)</u>
LRF Sample ID: <u>LCS-45</u>	Lab Sample ID: <u>AO00493L</u>
Instrument 1 ID: <u>GC23F</u>	Instrument 2 ID: <u>GC23B</u>
Date Analyzed: <u>01/18/2011 6:33:35 PM</u>	Date Analyzed: <u>01/18/2011 6:33:39 PM</u>
GC Column 1: <u>Agilent, J&W DB-1, 30 m, 0.25 mm ID, 0.25 µm</u>	GC Column 2: <u>Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm</u>
Lab File ID 1: <u>GC23F-519-6</u>	Lab File ID 2: <u>GC23B-517-6</u>
Matrix: <u>Water</u>	

Analyte	Column	Peak	RT (min)	RT Window		Concentration (ug/L)	RPD (%)	*
				From	To			
Aroclor 1248	1	1	NA	9.72	9.88			
		2	NA	10.39	10.55			
		3	NA	11.04	11.20			
		4	NA	11.20	11.36			
		5	NA	11.61	11.77			
	2	1	NA	10.02	10.18			
		2	NA	10.75	10.91			
		3	NA	11.36	11.52			
		4	NA	11.57	11.73			
		5	NA	12.04	12.20			
Aroclor 1254	1	1	NA	11.92	12.08			
		2	NA	12.59	12.75			
		3	NA	12.87	13.03			
		4	NA	14.36	14.52			
		5	NA	15.19	15.35			
	2	1	NA	12.22	12.38			
		2	NA	12.99	13.15			
		3	NA	13.29	13.45			
		4	NA	14.76	14.92			
		5	NA	15.63	15.79			
Aroclor 1260	1	1	NA	15.19	15.35			
		2	NA	17.45	17.61			
		3	NA	18.38	18.54			
		4	NA	19.18	19.34			
		5	NA	21.45	21.61			
	2	1	NA	15.62	15.78			
		2	NA	17.89	18.05			
		3	NA	19.08	19.24			
		4	NA	19.72	19.88			
		5	NA	22.35	22.51			

ATTACHMENT C
IMMINENT HAZARD EVALUATION

**IMMINENT HAZARD EVALUATION
RG-ROW-2 SURFACE SOIL
RUGGLES STREET RIGHT OF WAY
NEW BEDFORD, MASSACHUSETTS**

Due to the potential Imminent Hazard (IH) condition that was triggered at the Site on April 14, 2011 for the detection of total polychlorinated biphenyls (PCBs) in surface soil (0 to 1 foot below ground surface) at the RG-ROW-2 area of the Ruggles Street right-of-way adjacent to the Nemasket Street property, an IH evaluation has been performed. The potential IH condition was discovered during investigations to delineate the nature and extent of polycyclic aromatic hydrocarbons (PAHs), total PCBs, and metals in soil at the Nemasket Street property in support of Phase II reporting activities. The Ruggles Street right-of-way was sampled to determine whether impacts associated with the Nemasket Street property extended beyond the fencing that encloses the property and into the unfenced right-of-way.

As part of the investigation, thirteen soil samples (including one duplicate sample) from three locations were collected within the right-of-way at depths up to 10.5 feet below ground surface. The three locations, spaced at approximately 100 foot intervals along Ruggles Street adjacent to the Nemasket Street property, were identified as RG-ROW-1 through RG-ROW-3. Soil samples from these locations were collected between March 24, 2011 and April 1, 2011. At each location, one 0 to 1 foot sample was collected. Sample specific results for the three 0 to 1 foot samples are presented in Table 1.

PAHs, total PCBs and metals concentrations in the 0 to 1 foot interval were below the Method 1 S-1/GW-2 and S-1/GW-3 soil standards at RG-ROW-3. At RG-ROW-1 (0 to 1 foot), concentrations of total PCBs and three metals (cadmium, chromium and lead) exceeded Method 1 S-1/GW-2 and S-1/GW-3 soil standards, but the detected concentrations did not exceed MCP Imminent Hazard Reporting Thresholds. However, at sampling location RG-ROW-2 (0-1 foot), four PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and dibenz(a,h)anthracenes), and four metals (cadmium, chromium, lead and nickel) exceeded applicable Method 1 soil standards, and total PCBs were detected at a concentration exceeding the MCP Imminent Hazard Reporting Threshold of 10 mg/kg. Due to the detection of total PCBs at a level exceeding the MCP Imminent Hazard Reporting Thresholds at the RG-ROW-2 location, the potential IH condition was reported. This location is within 500 feet of residential properties and in the vicinity of the Keith Middle School and New Bedford High School campuses.

This IH evaluation reflects surface soil sampling conducted to date for the Ruggles Street right-of-way area. The surface soil sample results are summarized in Table 1. Arsenic was not considered further because its maximum detected concentration was less than its Massachusetts Department of Environmental Protection (MassDEP) background concentration for natural soil. Maximum concentrations, detected at RG-ROW-2, were used as exposure point concentrations (EPCs) for PAHs, total PCBs, and metals.

The RG-ROW-2 area of concern is located in the right-of-way along the northern side of Ruggles Street, approximately 200 feet from its intersection with Hathaway Boulevard. This area is a narrow strip of grass located between the fence that surrounds the Nemasket Street property and Ruggles Street. There is no sidewalk in this area of Ruggles Street. This area may be accessed by child and adult pedestrians walking along Ruggles Street as they pass by the Nemasket Street property. For the purposes of this IH evaluation, exposures are assumed to occur over a period of 30 weeks, which includes the spring, summer and fall when the ground is not frozen. During this 30-week period, exposures are assumed to occur 2 days per week as children and adults walk along Ruggles Street. These assumptions are consistent with MassDEP assumptions for a trespasser scenario, which is overly conservative for exposures that could conceivably occur at a narrow strip of soil adjacent to an abandoned property. These assumptions are conservative because their use assumes that: (1) children contact the exposed soils within the right-of-way when they pass by the RG-ROW-2 area; (2) children go to this small area on a regular basis; and (3) children remain at this location for a prolonged period of time, which is unlikely due to the small size and lack of attractive potential of this area.

To estimate exposures, an older child (age 11 to 16) was selected for evaluation because this age group may pass by this location and loiter along the edge of the roadway while walking to and from school or the local playground area. Incidental ingestion of and dermal contact with impacted soils are assumed to occur while the older child is stopped at this location. The inhalation of fugitive dust generated is not considered a complete exposure pathway since the types of activities that might occur at this location do not result in significant dust generation. Younger children are unlikely to be exposed to the RG-ROW-2 surface soils since young children are typically not allowed to loiter without supervision along the edge of a public roadway.

The MassDEP trespasser imminent hazard shortform has been used to calculate the risk and hazard associated with exposures at the RG-ROW-2 area. Exposure assumptions applicable to the older child are provided as part of the shortform documentation (see Table 2).

The shortform documentation provided in Table 2 presents the risk and hazard calculations. The hazard index (HI) of 0.4 is less than the MCP noncarcinogenic IH limit of 10. The excess lifetime cancer risk (ELCR) of $1E-06$ is less than the MCP carcinogenic IH limit of $1E-05$. Therefore, no IH condition exists at the RG-ROW-2 area of the Ruggles Street right-of-way.

Table 1
 Summary of Analytical Results for Surface Soil Samples
 Ruggles Street Right-of-Way
 New Bedford, Massachusetts

Analysis	Analyte	Sample ID:			Sample Depth (ft.): Sample Date:	EPC (mg/kg)	EPC Rationale
		S-1/GW-2	S-1/GW-3	Background			
SVOCs	Acenaphthene	1,000	1,000	0.5	0.44 U	0.19 U	3.3 Maximum
	Anthracene	1,000	1,000	1	0.44 U	0.19 U	5.3 Maximum
	Benzo(a)anthracene	7	7	2	1.5	13	13 Maximum
	Benzo(a)pyrene	2	2	2	1.5	11	11 Maximum
	Benzo(b)fluoranthene	7	7	2	1.8	14	14 Maximum
	Benzo(g,h,i)perylene	1,000	1,000	1	0.80	0.19 U	4.3 Maximum
	Benzo(k)fluoranthene	70	70	1	0.63	0.30	6.6 Maximum
	Chrysene	70	70	2	1.6	12	12 Maximum
	Dibenz(a,h)anthracene	0.7	0.7	0.5	0.44 U	0.48	1.3 Maximum
	Fluoranthene	1,000	1,000	4	1.5	29	29 Maximum
	Fluorene	1,000	1,000	1	0.44 U	0.19 U	2.7 Maximum
	Indeno(1,2,3-cd)pyrene	7	7	1	0.88	0.21	5.5 Maximum
	2-Methylnaphthalene	80	300	0.5	0.44 U	0.19 U	0.86 Maximum
	Naphthalene	40	500	0.5	0.44 U	0.19 U	1.2 Maximum
	Phenanthrene	500	500	3	1.3	20	20 Maximum
	Pyrene	1,000	1,000	4	2.1	0.57	21 Maximum
	PCBs	Total PCBs	2	2	NA	7.61	0.196
Metals, total	Arsenic	20	20	20	11	3.0 U	NA Below background
	Barium	1,000	1,000	50	610	39	950 Maximum
	Cadmium	2	2	2	2.2	3.1	3.1 Maximum
	Chromium	30	30	30	33	140	140 Maximum
	Lead	300	300	100	740	740	740 Maximum
	Mercury	20	20	0.3	0.90	0.042	1.8 Maximum
	Nickel	20	20	20	19	41	41 Maximum
	Vanadium	600	600	30	30	83	83 Maximum
	Zinc	2,500	2,500	100	510	40	780 Maximum

Notes:
 mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).
 EPC - Exposure point concentration.
 J - Estimated value.
 NA - Not applicable.
 U - Compound was not detected at specified quantitation limit.
 Values in Bold indicate the compound was detected.
 Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.
 SVOCs - Semivolatile Organic Compounds.
 PCBs - Polychlorinated Biphenyls.

Table 2. Trespasser - Soil: Table TSIH-1 (RG-ROW-2)
Exposure Point Concentration (EPC)
Based on Trespasser Ages 11-16 (Cancer) and 11-12 (Non-Cancer)

ShortForm Version 10-06

Lookup Version v0808

ELCR (all chemicals) = 1E-06

HI (all chemicals) = 4E-01

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	ELCR _{ingestion}	ELCR _{dermal}	ELCR _{total}	Subchronic		HQ _{total}
					HQ _{ing}	HQ _{derm}	
Acenaphthene	3.3				7.0E-07	1.4E-06	2.1E-06
Anthracene	5.3				2.3E-07	4.3E-07	6.6E-07
Benzo(a)anthracene	13	3.2E-08	1.8E-08	5.0E-08	4.3E-06	2.1E-06	6.4E-06
Benzo(a)pyrene	11	2.7E-07	1.5E-07	4.3E-07	3.6E-06	1.8E-06	5.4E-06
Benzo(b)fluoranthene	14	3.5E-08	1.9E-08	5.4E-08	4.6E-06	2.3E-06	6.9E-06
Benzo(g,h,i)perylene	4.3				1.8E-06	3.5E-06	5.4E-06
Benzo(k)fluoranthene	6.6	1.6E-09	9.2E-10	2.6E-09	2.2E-06	1.1E-06	3.3E-06
Chrysene	12	3.0E-09	1.7E-09	4.7E-09	4.0E-06	2.0E-06	5.9E-06
Dibenzo(a,h)anthracene	1.3	3.2E-08	1.8E-08	5.0E-08	4.3E-07	2.1E-07	6.4E-07
Fluoranthene	29				9.3E-06	1.8E-05	2.7E-05
Fluorene	2.7				8.6E-07	1.7E-06	2.5E-06
Indeno(1,2,3-cd)pyrene	5.5	1.4E-08	7.7E-09	2.1E-08	1.8E-06	9.0E-07	2.7E-06
Methylnaphthalene, 2-	0.86				2.7E-05	5.3E-05	8.0E-05
Naphthalene	1.2				7.7E-07	1.5E-06	2.2E-06
Phenanthrene	20				8.5E-06	1.6E-05	2.5E-05
Pyrene	21				8.9E-06	1.7E-05	2.6E-05
Polychlorinated biphenyls (PCBs)	11.61	2.4E-07	3.5E-07	5.9E-07	7.0E-02	9.1E-02	1.6E-01
Barium	950				4.8E-03	1.7E-03	6.5E-03
Cadmium	3.1				2.2E-03	2.1E-03	4.3E-03
Chromium(VI)	140				2.5E-03	1.5E-03	4.0E-03
Lead	740				1.7E-01	1.5E-02	1.9E-01
Mercury	1.8				2.1E-03	7.4E-04	2.9E-03
Nickel	41				7.3E-04	1.8E-03	2.5E-03
Vanadium	83				3.3E-03	6.8E-04	3.9E-03
Zinc	780				9.2E-04	1.3E-04	1.0E-03

ATTACHMENT D

PUBLIC NOTIFICATION LETTERS



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June 9, 2011

TRC Reference Number: 115058.0000

Mayor Scott W. Lang
City Hall, Room 311
133 William Street
New Bedford, MA 02740

RE: Notice of Immediate Response Action Completion Report
Ruggles Street Right-of-Way Surface Soils
New Bedford, Massachusetts

Release Tracking Number (RTN) 4-23223

Dear Mayor Lang:

On behalf of the City of New Bedford, Massachusetts, and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), TRC Environmental Corporation (TRC) has prepared this letter to inform you of the submittal of an Immediate Response Action Completion Report pertaining to soils containing concentrations of polychlorinated biphenyls (PCBs) within the Ruggles Street right-of-way in New Bedford, Massachusetts. This submittal will be made to the Massachusetts Department of Environmental Protection (MassDEP) by June 13, 2011.

A copy of this document can be obtained from Cheryl Henlin in the Department of Environmental Stewardship. If you have any questions concerning this letter please contact me at (978) 656-3565.

Sincerely,
TRC Environmental Corporation

A handwritten signature in cursive script that reads "David M. Sullivan".

David M. Sullivan, CHMM, LSP
Sr. Project Manager



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June 9, 2011

TRC Reference Number: 115058.0000

Marianne B. De Souza
Health Department
1213 Purchase Street
First Floor
New Bedford, MA 02740

RE: Notice of Immediate Response Action Completion Report
Ruggles Street Right-of-Way Surface Soils
New Bedford, Massachusetts

Release Tracking Number (RTN) 4-23223

Ms. De Souza:

On behalf of the City of New Bedford, Massachusetts, and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), TRC Environmental Corporation (TRC) has prepared this letter to inform you of the submittal of an Immediate Response Action Completion Report pertaining to soils containing concentrations of polychlorinated biphenyls (PCBs) within the Ruggles Street right-of-way in New Bedford, Massachusetts. This submittal will be made to the Massachusetts Department of Environmental Protection (MassDEP) by June 13, 2011.

A copy of this document can be obtained from Cheryl Henlin in the Department of Environmental Stewardship. If you have any questions concerning this letter please contact me at (978) 656-3565.

Sincerely,
TRC Environmental Corporation

A handwritten signature in black ink that reads "David M. Sullivan". The signature is written in a cursive style with a large, looped 'D' and 'S'.

David M. Sullivan, CHMM, LSP
Sr. Project Manager