Wannalancit Mills
650 Suffolk St., Suite 200
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.trcsolutions.com

TRC Reference Number: 223832

December 8, 2014

Raymond R. Holberger
City of New Bedford
Department of Environmental Stewardship
133 William Street
New Bedford, Massachusetts 02740

Subject: Groundwater Monitoring Results – October 2014
Keith Middle School, New Bedford, Massachusetts

Dear Mr. Holberger:

In accordance with the August 2012 Revised Long-Term Monitoring and Maintenance Implementation Plan, Revision 5.5 (LTMMIP) for Keith Middle School (KMS), TRC Environmental Corporation (TRC) collected groundwater samples from three on-property monitoring wells on October 24, 2014 (Figure 1).

Review of the polychlorinated biphenyl (PCB) and dissolved metals data has been completed by TRC's Quality Assurance (QA) Chemist. The attached table and laboratory data reports provide the results from this sampling effort. Three of the four samples, including the duplicate sample, (MW-1, MW-101 and MW-3) were non-detect for PCB Aroclors. MW-2 detected concentrations of PCBs, specifically PCB Aroclor 1254, below the Method 1 GW-1/GW-2/GW-3 standards (Table 1). In accordance with the LTMMIP, chromatograms for samples yielding non-detect results were qualitatively evaluated for the presence of PCB peaks by TRC's QA Chemist. Review of the chromatograms indicated that no further analysis (e.g., PCB Aroclor analysis using EPA Method 680) was warranted.

Low levels of dissolved metals including arsenic, barium, and/or lead were detected in each of the groundwater samples, including the duplicate sample, below applicable Massachusetts Department of Environmental Protection (MassDEP) standards (Table 1). Pursuant to the EPA approved LTMMIP, further assessment is not required. Laboratory analytical data packages are included as Attachment 1.

Please note that the data are compared to Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) Method 1 GW-2 and GW-3 groundwater cleanup criteria per the LTMMIP, but also to the GW-1 criteria because one of the groundwater monitoring wells (MW-3) is within 500 feet of a suspected potable private groundwater supply well at 249 Summit Street.

TRC appreciates the opportunity to support your project. If you have any questions or comments, please do not hesitate to contact me at 978-656-3565.

Sincerely,

TRC

David M. Sullivan, LSP
Senior Project Manager

Enclosure
cc with enclosure: K. Tisa, United States Environmental Protection Agency

TABLE

Table 1
Summary of Analytical Results for Groundwater Samples
(May and October 2014)
Keith Middle School
New Bedford, Massachusetts

Analysis	Analyte			Sample ID:	**MW-1**		**MW-2**		**MW-3**			
				Sample Date:	5/22/2014	10/24/2014	5/22/2014	10/24/2014	5/22/2014	5/22/2014 Field Dup	10/24/2014	10/24/2014 Field Dup
				Applicable Standard(s):	**GW-2/3**		**GW-2/3**		**GW-1/2/3**			
		GW-1	GW-2	GW-3								
PCBs												
(ug/L)	Aroclor 1016	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	0.0500 U	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Aroclor 1221	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	0.0500 U	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Aroclor 1232	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	0.0500 U	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Aroclor 1242	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	0.0500 U	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Aroclor 1248	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	0.0500 U	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Aroclor 1254	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	**0.0214 J**	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Aroclor 1260	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	0.0500 U	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
	Total PCBs	0.5	5	10	0.0500 UJ	0.0500 U	0.0500 UJ	**0.0214 J**	0.0556 UJ	0.0500 UJ	0.0500 U	0.0500 U
Metals, dissolved												
(ug/L)	Antimony	6	NS	8,000	NA	NA	NA	NA	NA	NA	NA	NA
	Arsenic	10	NS	900	0.40 U	0.40 U	**0.55**	**0.71**	**0.66**	**0.62**	**0.87**	**0.90**
	Barium	2,000	NS	50,000	**60**	**58**	**310**	**520**	**130**	**120**	**240**	**230**
	Beryllium	4	NS	200	NA	NA	NA	NA	NA	NA	NA	NA
	Cadmium	5	NS	4	0.50 U	0.50 U	0.50 U	0.50 U	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	**1.3**	**1.7**	1.0 U	1.0 U
	Lead	15	NS	10	1.0 U	1.0 U	1.0 U	1.0 U	**4.8**	**7.8**	**2.8**	**2.8**
	Mercury	2	NS	20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
	Nickel	100	NS	200	NA	NA	NA	NA	NA	NA	NA	NA
	Selenium	50	NS	100	5.0 U	5.0 U	5.0 U	5.0 U	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	0.50 U	0.50 U	0.50 U	0.50 U
	Thallium	2	NS	3,000	NA	NA	NA	NA	NA	NA	NA	NA
	Vanadium	30	NS	4,000	NA	NA	NA	NA	NA	NA	NA	NA
	Zinc	5,000	NS	900	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

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

PCBs - Polychlorinated Biphenyls.

FIGURE

LEGEND:

- MONITORING WELL LOCATIONS
- AREA OF BETA GROUP EXCAVATION
- APPROXIMATE KEITH MIDDLE SCHOOL BUILDING
- APPROXIMATE KEITH MIDDLE SCHOOL PAVED AREA

NEMASKET STREET
MACOMBER STREET
AUBURN STREET
HAPWELL STREET
SUMMIT STREET
SUMMIT STREET RIGHT-OF-WAY
DURFEE STREET
HATHAWAY BOULEVARD
EXCAVATED AREA
NORTHERN WETLAND
SOUTHERN WETLAND
EXCAVATED AREA
MW-1
MW-2
MW-3
BORDERING VEGETATED WETLAND 1
BORDERING VEGETATED WETLAND 2
STANDING WATER 4-28-00
STANDING WATER ELEVATION 85.01 SPRING 2004
RIP RAP
8" SEWER PIPE
20" SEWER PIPE
30" DRAIN PIPE
36" DRAIN PIPE
12" RCP
24" RCP
10" SEWER PIPE (ABANDONED)
12" DRAIN PIPE FROM RECORD PLANS NO EVIDENCE IN FIELD BEYOND DMH 9 (ABANDONED)
SIDEWALK
EOP

NOTE: DRAWING BASED ON "McCOY FIELD SITE PLAN" FROM BETA GROUP, NORWOOD, MA DATED 6-04 AND "NEW BEDFORD PROGRESS DRAWING" FROM BETA GROUP, NORWOOD, MA DATED 8-06.

APPROXIMATE GRAPHIC SCALE

0' 50' 100' 200'

KEITH MIDDLE SCHOOL
NEW BEDFORD, MASSACHUSETTS

MONITORING WELL LOCATIONS

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

DRAWN BY: HWB
CHECKED BY: JBS
DATE: JUNE 2011

FIGURE 1

FILE: T:\E_CAD\115059\KMS MW LOCS 6-17-11.dwg

Attachment 1

Laboratory Data Package

Date Issued: November 03, 2014

Pace Analytical e-Report

***Issuance of this report is prior to full data package.**

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

Project ID: KMS-NB 223832
Sampling Date(s): October 24, 2014
Lab Report ID: 14100805
Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:
PCB Analysis (Water)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within the document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

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

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

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

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<14100805P1>

141008051

Page: 1 of 1

1849415

Section A Required Client Information:

Company: TRC Environmental
Address: 650 Suffolk St
Lowell, MA 01854
Email To: dsullivan@trcsolutions.com
Phone: 978-770-5400 Fax:
Requested Due Date/TAT: 5-day

Section B Required Project Information:

Report To: David Sullivan
Copy To: ~~Jeff Saunders~~ ACT
Dave Gill
Purchase Order No.: 73683
Project Name: KMS-NB
Project Number: 223832

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED ~~COMPOSITE START~~ GRAB DATE	TIME	~~COMPOSITE END/GRAB~~ DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: PCBs											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G	10/24/14	0805				6	X								X			MS/MSD								AR41292
2	MW-101	↓	↓	↓	1320				2	X								X											AR41293
3	MW-2	↓	↓	↓	1015				2	X								X											AR41294
4	MW-3	↓	↓	↓	1220				2	X								X											AR41295
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* 0.5mg/L RL for PCBs		10/24/14	1322	VIA FEDEX						
* Per project specific requirements	VIA FEDEX	10/25/14	815	Chris Pau	10/25/14	815	4.4	Y	Y	Y
previously documented with PACE, chromatographs with samples with ND need to be analyzed. Please review requirements and contact project manager if required.										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Ting
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 10/24/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical

Sample Condition Upon Receipt

<14100805P2>

141008052

CLIENT NAME: TRC

PROJECT : KMS-NR

COURIER: FedEx ☒ UPS ☐ Client ☐ Pace ☐ Other ☐

TRACKING # 8054 7673 3515

CUSTODY SEAL PRESENT: Yes ☒ No ☐ **INTACT**: Yes ☒ No ☐ N/A ☐

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☒ IR Gun 03 ☐ #122087967 ☐

COOLER TEMPERATURE (°C): 4.4°C

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: NA / Lot # of added preservative: NA
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: NA				

Sample Receipt form filled in: CJP 10/25/14

Line-Out (Includes Copying Shipping Documents and verifying sample pH): CJP 10/25/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): CJP 10/25/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): CJP 10/25/14

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: TRC ENVIRONMENTAL
PROJECT: KMS-NB 223832
LRF: 14100805
REPORT: CLP-LIKE FORMS
EDD: YES
LRF TAT: 1 WEEK

RECEIVED DATE: 10/25/2014 08:15
SHIPPED VIA: FEDEX
SHIPPING ID: 805476733515
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: YES
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 4.4 °C

SAMPLE SEALS INTACT: NA
[1,2] **SAMPLES PRESERVED PER METHOD GUIDANCE:** YES
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

3

CLIENT ID (LAB ID)	TAT-DUE Date[4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
MW-1 (AR41292)	1 WEEK 11-03-14	10/24/2014 08:05	Water	EPA 8082A	PCB Analysis (Water)	MS, MSD
MW-101 (AR41293)	1 WEEK 11-03-14	10/24/2014 13:20	Water	EPA 8082A	PCB Analysis (Water)	
MW-2 (AR41294)	1 WEEK 11-03-14	10/24/2014 10:15	Water	EPA 8082A	PCB Analysis (Water)	
MW-3 (AR41295)	1 WEEK 11-03-14	10/24/2014 12:20	Water	EPA 8082A	PCB Analysis (Water)	

[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis (Water) - (ug/L)

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB Amount

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2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC - PCB

4

Analytical Sample Results

Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-1
Lab Sample ID: 14100805-01 (AR41292)

Collection Date: 10/24/2014 08:05
Sample Matrix: WATER
Received Date: 10/25/2014 08:15
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-49	SW-846 Method 8082A	10/31/2014 22:50	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1070 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1468-49
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1468-49
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1468-49
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28F-1468-49
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1468-49
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1468-49
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1468-49
Total PCB Amount	1336-36-3	ND		1.00	U	GC28F-1468-49

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	88.3	60.0-140		GC28F-1468-49
Decachlorobiphenyl	2051-24-3	97.7	60.0-140		GC28F-1468-49
Tetrachloro-meta-xylene	877-09-8	83.0	60.0-140		GC28B-1465-49
Decachlorobiphenyl	2051-24-3	93.1	60.0-140		GC28B-1465-49

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

4

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Analytical Sample Results

Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-101
Lab Sample ID: 14100805-02 (AR41293)

Collection Date: 10/24/2014 13:20
Sample Matrix: WATER
Received Date: 10/25/2014 08:15
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-50	SW-846 Method 8082A	10/31/2014 23:03	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1050 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1468-50
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1468-50
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1468-50
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28F-1468-50
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1468-50
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1468-50
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1468-50
Total PCB Amount	1336-36-3	ND		1.00	U	GC28F-1468-50

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	85.1	60.0-140		GC28F-1468-50
Decachlorobiphenyl	2051-24-3	92.3	60.0-140		GC28F-1468-50
Tetrachloro-meta-xylene	877-09-8	79.7	60.0-140		GC28B-1465-50
Decachlorobiphenyl	2051-24-3	84.7	60.0-140		GC28B-1465-50

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

4

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2190 Technology Drive | Schenectady, NY 12308 | Phone 518.346.4592 | Fax 518.381.6055 | www.pacelabs.com

Analytical Sample Results

Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-2
Lab Sample ID: 14100805-03 (AR41294)

Collection Date: 10/24/2014 10:15
Sample Matrix: WATER
Received Date: 10/25/2014 08:15
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28B-1465-51	SW-846 Method 8082A	10/31/2014 23:17	AMB	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28B-1465-51
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28B-1465-51
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28B-1465-51
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28B-1465-51
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28B-1465-51
Aroclor 1254	11097-69-1	**0.0214**	0.0500	1.00	AF,J	GC28B-1465-51
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28B-1465-51
Total PCB Amount	1336-36-3	**0.0214**		1.00	J	GC28B-1465-51

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	83.4	60.0-140		GC28F-1468-51
Decachlorobiphenyl	2051-24-3	91.1	60.0-140		GC28F-1468-51
Tetrachloro-meta-xylene	877-09-8	77.9	60.0-140		GC28B-1465-51
Decachlorobiphenyl	2051-24-3	87.8	60.0-140		GC28B-1465-51

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Analytical Sample Results

Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-3
Lab Sample ID: 14100805-04 (AR41295)

Collection Date: 10/24/2014 12:20
Sample Matrix: WATER
Received Date: 10/25/2014 08:15
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-52	SW-846 Method 8082A	10/31/2014 23:31	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1050 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1468-52
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1468-52
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1468-52
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28F-1468-52
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1468-52
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1468-52
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1468-52
Total PCB Amount	1336-36-3	ND		1.00	U	GC28F-1468-52

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	83.2	60.0-140		GC28F-1468-52
Decachlorobiphenyl	2051-24-3	96.6	60.0-140		GC28F-1468-52
Tetrachloro-meta-xylene	877-09-8	81.2	60.0-140		GC28B-1465-52
Decachlorobiphenyl	2051-24-3	92.2	60.0-140		GC28B-1465-52

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Samples (Field)

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-1 MS
Lab Sample ID: 14100805-01M (AR41292M)-Confirm

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28B-1465-41	SW-846 Method 8082A	10/31/2014 20:58	AMB	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	940 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0532	1.00	U	GC28B-1465-41
Aroclor 1221	11104-28-2	ND	0.0532	1.00	U	GC28B-1465-41
Aroclor 1232	11141-16-5	ND	0.0532	1.00	U	GC28B-1465-41
Aroclor 1242	53469-21-9	**0.459**	0.0532	1.00		GC28B-1465-41
Aroclor 1248	12672-29-6	ND	0.0532	1.00	U	GC28B-1465-41
Aroclor 1254	11097-69-1	ND	0.0532	1.00	U	GC28B-1465-41
Aroclor 1260	11096-82-5	ND	0.0532	1.00	U	GC28B-1465-41
Total PCB Amount	1336-36-3	**0.459**		1.00		GC28B-1465-41

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9		0.532	0.459	86.3		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	83.5	60.0-140		GC28B-1465-41
Decachlorobiphenyl	2051-24-3	93.5	60.0-140		GC28B-1465-41

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-1 MS
Lab Sample ID: 14100805-01M (AR41292M)-Primary

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-41	SW-846 Method 8082A	10/31/2014 20:58	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	940 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0532	1.00	U	GC28F-1468-41
Aroclor 1221	11104-28-2	ND	0.0532	1.00	U	GC28F-1468-41
Aroclor 1232	11141-16-5	ND	0.0532	1.00	U	GC28F-1468-41
Aroclor 1242	53469-21-9	**0.467**	0.0532	1.00		GC28F-1468-41
Aroclor 1248	12672-29-6	ND	0.0532	1.00	U	GC28F-1468-41
Aroclor 1254	11097-69-1	ND	0.0532	1.00	U	GC28F-1468-41
Aroclor 1260	11096-82-5	ND	0.0532	1.00	U	GC28F-1468-41
Total PCB Amount	1336-36-3	**0.467**		1.00		GC28F-1468-41

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9		0.532	0.467	87.8		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	87.5	60.0-140		GC28F-1468-41
Decachlorobiphenyl	2051-24-3	97.3	60.0-140		GC28F-1468-41

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Matrix Spike Duplicate (MSD)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-1 MSD
Lab Sample ID: 14100805-01K (AR41292K)-Primary

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-42	SW-846 Method 8082A	10/31/2014 21:12	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1020 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1468-42
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1468-42
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1468-42
Aroclor 1242	53469-21-9	**0.425**	0.0500	1.00		GC28F-1468-42
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1468-42
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1468-42
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1468-42
Total PCB Amount	1336-36-3	**0.425**		1.00		GC28F-1468-42

								Precision			
Analyte Spiked	**CAS No.**	**Sample (ug/L)**	**Added (ug/L)**	**MSD (ug/L)**	**MSD % Rec.**	**Q[1]**	**Limits (%)**	**MS % Rec.**	**RPD**	**Q[1]**	**Limits (%)**
Aroclor 1242	53469-21-9		0.490	0.425	86.7		70.0-130	87.8	1.26		20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	87.6	60.0-140		GC28F-1468-42
Decachlorobiphenyl	2051-24-3	95.8	60.0-140		GC28F-1468-42

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Matrix Spike Duplicate (MSD)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: MW-1 MSD
Lab Sample ID: 14100805-01K (AR41292K)-Confirm

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28B-1465-42	SW-846 Method 8082A	10/31/2014 21:12	AMB	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1020 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28B-1465-42
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28B-1465-42
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28B-1465-42
Aroclor 1242	53469-21-9	**0.423**	0.0500	1.00		GC28B-1465-42
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28B-1465-42
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28B-1465-42
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28B-1465-42
Total PCB Amount	1336-36-3	**0.423**		1.00		GC28B-1465-42

								Precision			
Analyte Spiked	**CAS No.**	**Sample (ug/L)**	**Added (ug/L)**	**MSD (ug/L)**	**MSD % Rec.**	**Q[1]**	**Limits (%)**	**MS % Rec.**	**RPD**	**Q[1]**	**Limits (%)**
Aroclor 1242	53469-21-9		0.490	0.423	86.2		70.0-130	86.3	0.116		20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	84.5	60.0-140		GC28B-1465-42
Decachlorobiphenyl	2051-24-3	91.9	60.0-140		GC28B-1465-42

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Samples (Lab)

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Quality Control Results
Method Blank

Job Number: 14100805

Pace Analytical Services, Inc.
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Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: Method Blank (AR40884BRR1)
Lab Sample ID: PBLK-20

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28B-1465-37	SW-846 Method 8082A	10/31/2014 20:03	AMB	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28B-1465-37
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28B-1465-37
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28B-1465-37
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28B-1465-37
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28B-1465-37
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28B-1465-37
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28B-1465-37
Total PCB Amount	1336-36-3	ND		1.00	U	GC28B-1465-37

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	78.6	60.0-140		GC28B-1465-37
Decachlorobiphenyl	2051-24-3	92.6	60.0-140		GC28B-1465-37

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Method Blank

Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: Method Blank (AR40884BRR1)
Lab Sample ID: PBLK-20

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-37	SW-846 Method 8082A	10/31/2014 20:03	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC28F-1468-37
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC28F-1468-37
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC28F-1468-37
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC28F-1468-37
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC28F-1468-37
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC28F-1468-37
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC28F-1468-37
Total PCB Amount	1336-36-3	ND		1.00	U	GC28F-1468-37

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	83.2	60.0-140		GC28F-1468-37
Decachlorobiphenyl	2051-24-3	97.8	60.0-140		GC28F-1468-37

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Lab Control Sample (LCS)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: Lab Control Sample (AR40884L)
Lab Sample ID: LCS-20

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28B-1465-39	SW-846 Method 8082A	10/31/2014 20:30	AMB	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	0.500	0.399	79.9		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	75.8	60.0-140		GC28B-1465-39
Decachlorobiphenyl	2051-24-3	93.8	60.0-140		GC28B-1465-39

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Lab Control Sample (LCS)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: Lab Control Sample (AR40884L)
Lab Sample ID: LCS-20

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-39	SW-846 Method 8082A	10/31/2014 20:30	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	0.500	0.423	84.7		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	79.0	60.0-140		GC28F-1468-39
Decachlorobiphenyl	2051-24-3	99.5	60.0-140		GC28F-1468-39

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6

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Quality Control Results
Lab Control Sample - Duplicate (LCSD)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: Lab Control Sample - Duplicate (AR40884S)
Lab Sample ID: LCSD-20

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28B-1465-40	SW-846 Method 8082A	10/31/2014 20:44	AMB	NA	NA	Phenomenex, Zebron ZB-5, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCSD (ug/L)	LCSD % Rec.	Q[1]	Limits (%)	Precision: LCS % Rec.	Precision: RPD	Precision: Q[1]	Precision: Limits (%)
Aroclor 1242	53469-21-9	0.500	0.400	80.0		70.0-130	79.9	0.125	*	0

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	75.6	60.0-140		GC28B-1465-40
Decachlorobiphenyl	2051-24-3	93.9	60.0-140		GC28B-1465-40

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Lab Control Sample - Duplicate (LCSD)
Job Number: 14100805

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: TRC ENVIRONMENTAL
Project: KMS-NB 223832
Client Sample ID: Lab Control Sample - Duplicate (AR40884S)
Lab Sample ID: LCSD-20

Collection Date: N/A
Sample Matrix: WATER
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC28F-1468-40	SW-846 Method 8082A	10/31/2014 20:44	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29272	EPA 3535A	10/31/2014 09:36	KEN	1000 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCSD (ug/L)	LCSD % Rec.	Q[1]	Limits (%)	Precision: LCS % Rec.	Precision: RPD	Precision: Q[1]	Precision: Limits (%)
Aroclor 1242	53469-21-9	0.500	0.448	89.5		70.0-130	84.7	5.51	*	0

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	79.6	60.0-140		GC28F-1468-40
Decachlorobiphenyl	2051-24-3	97.6	60.0-140		GC28F-1468-40

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Chromatograms

7

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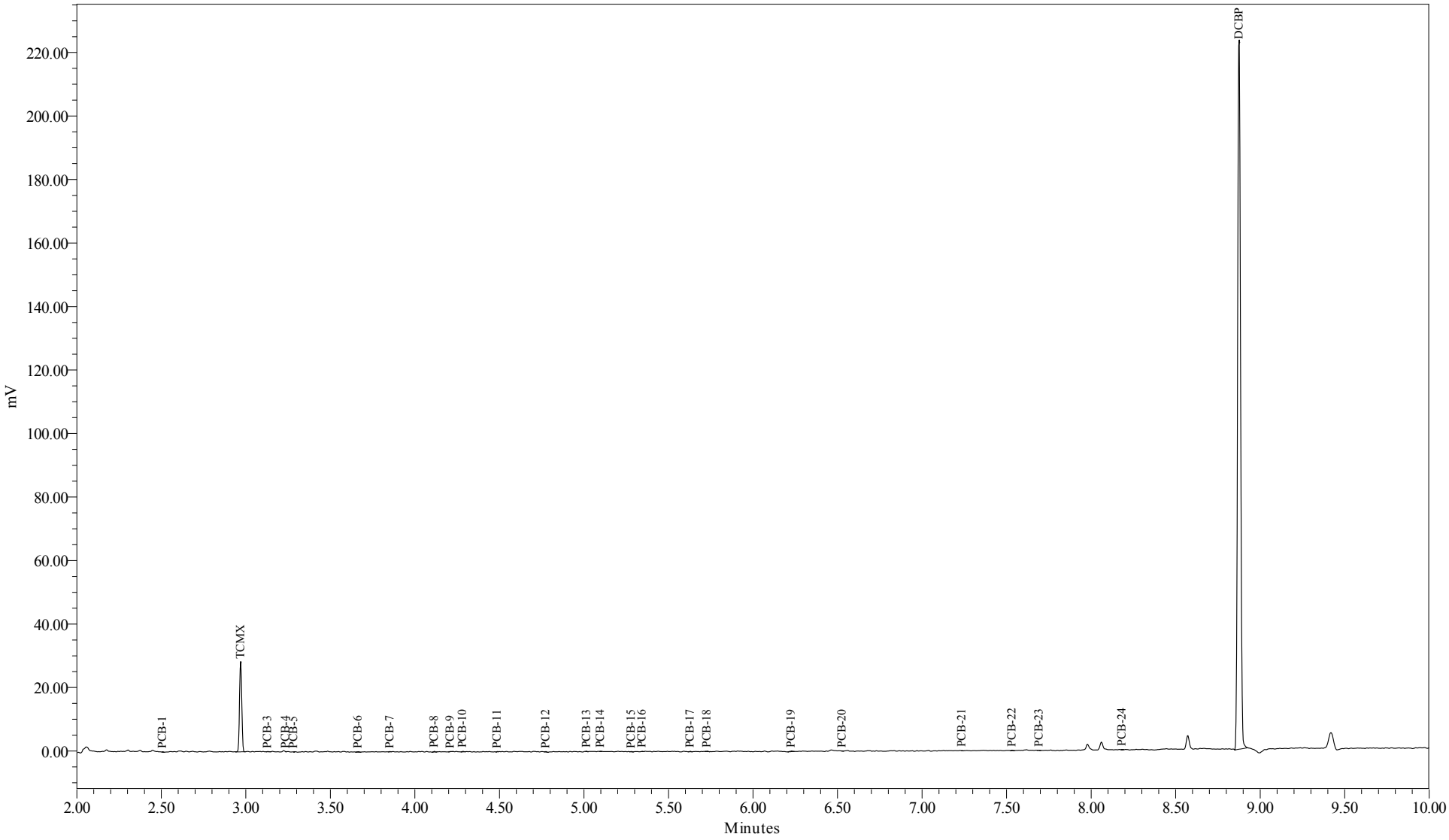

Sample Name:	AR40884BRR1	Sample Amount (L) :	1.0000
Sample ID:	METHOD BLANK	Dilution:	10
Date Acquired:	10/31/2014 8:03:10 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-37 [m]

Sample Name: AR40884BRR1

7

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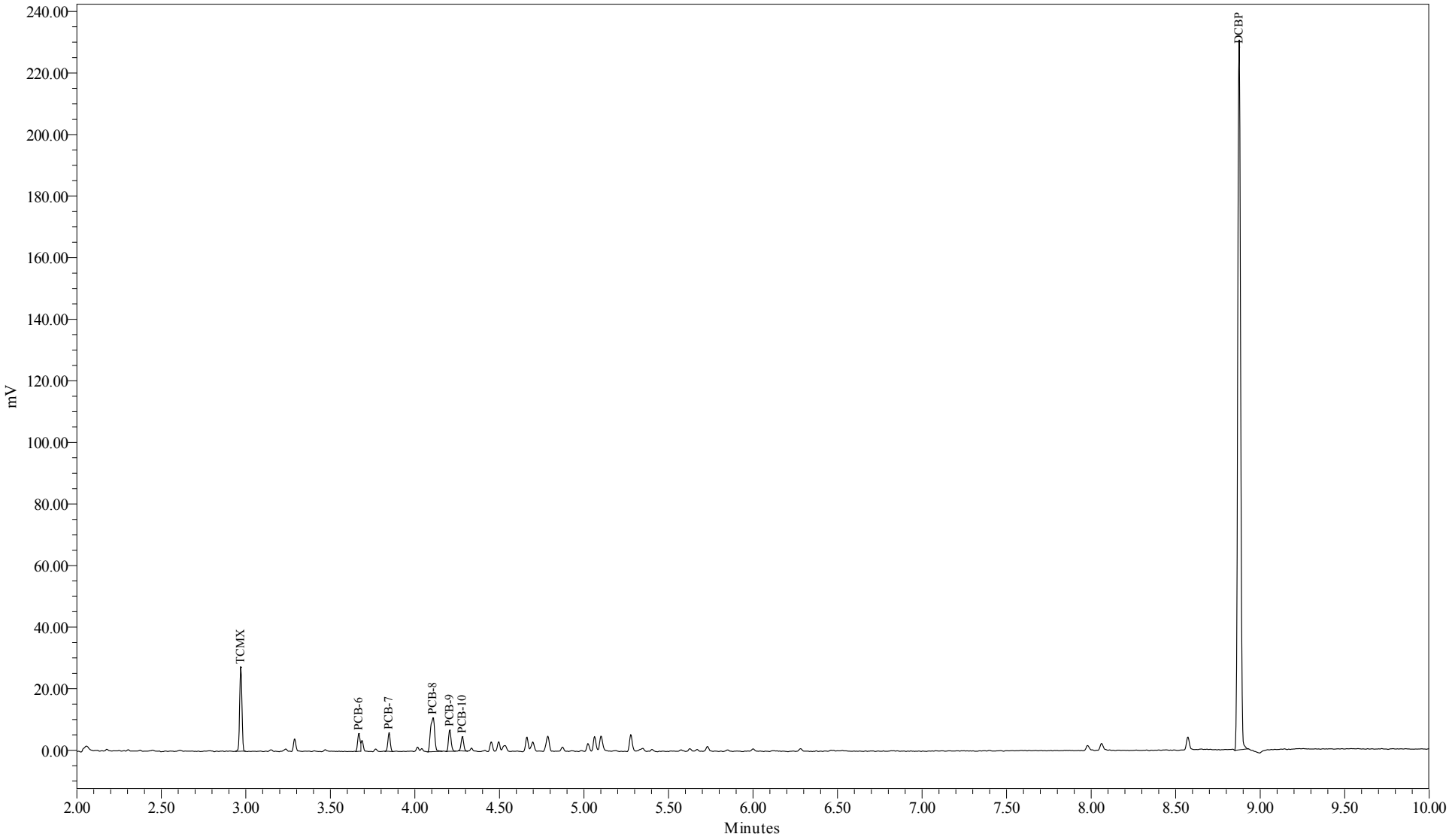

Sample Name:	AR40884L	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE	Dilution:	10
Date Acquired:	10/31/2014 8:30:56 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-39 [m]

Sample Name: AR40884L

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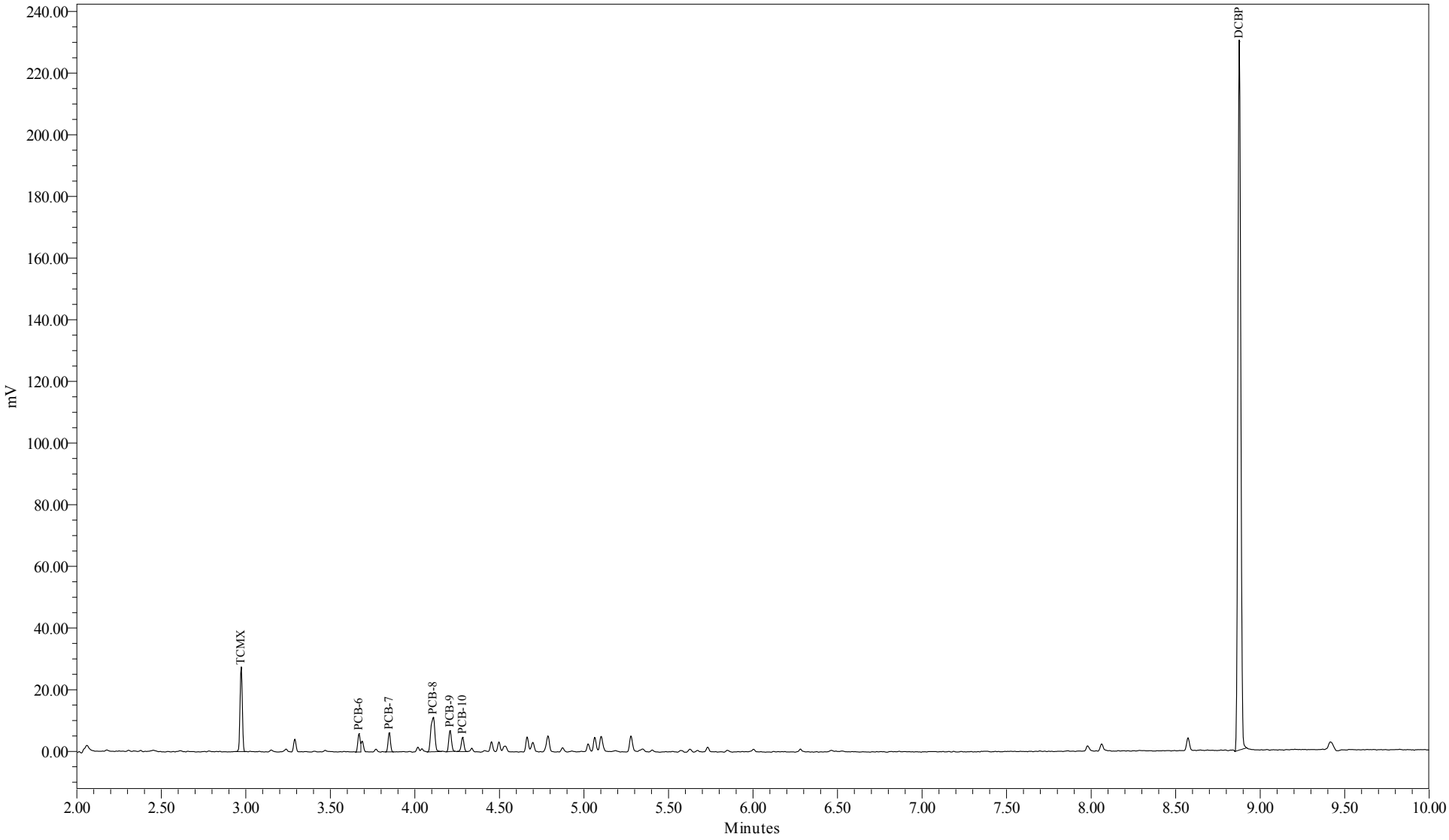

Sample Name:	AR40884S	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE DUPLICATE	Dilution:	10
Date Acquired:	10/31/2014 8:44:43 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-40 [m]

Sample Name: AR40884S

7

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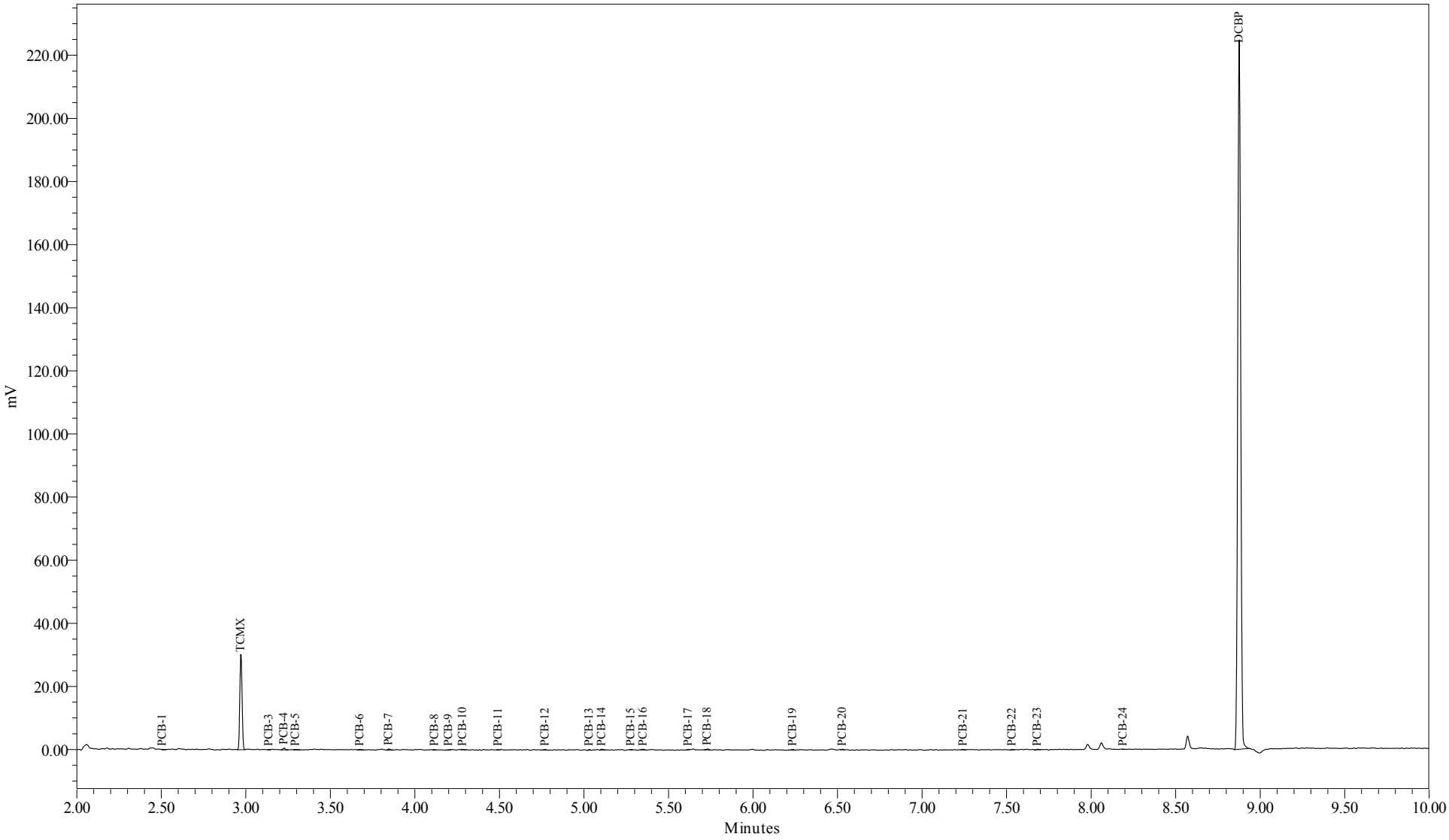

Sample Name:	AR41292	Sample Amount (L) :	1.0700
Sample ID:	MW-1	Dilution:	10
Date Acquired:	10/31/2014 10:50:08 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-49 [m]

Sample Name: AR41292

7

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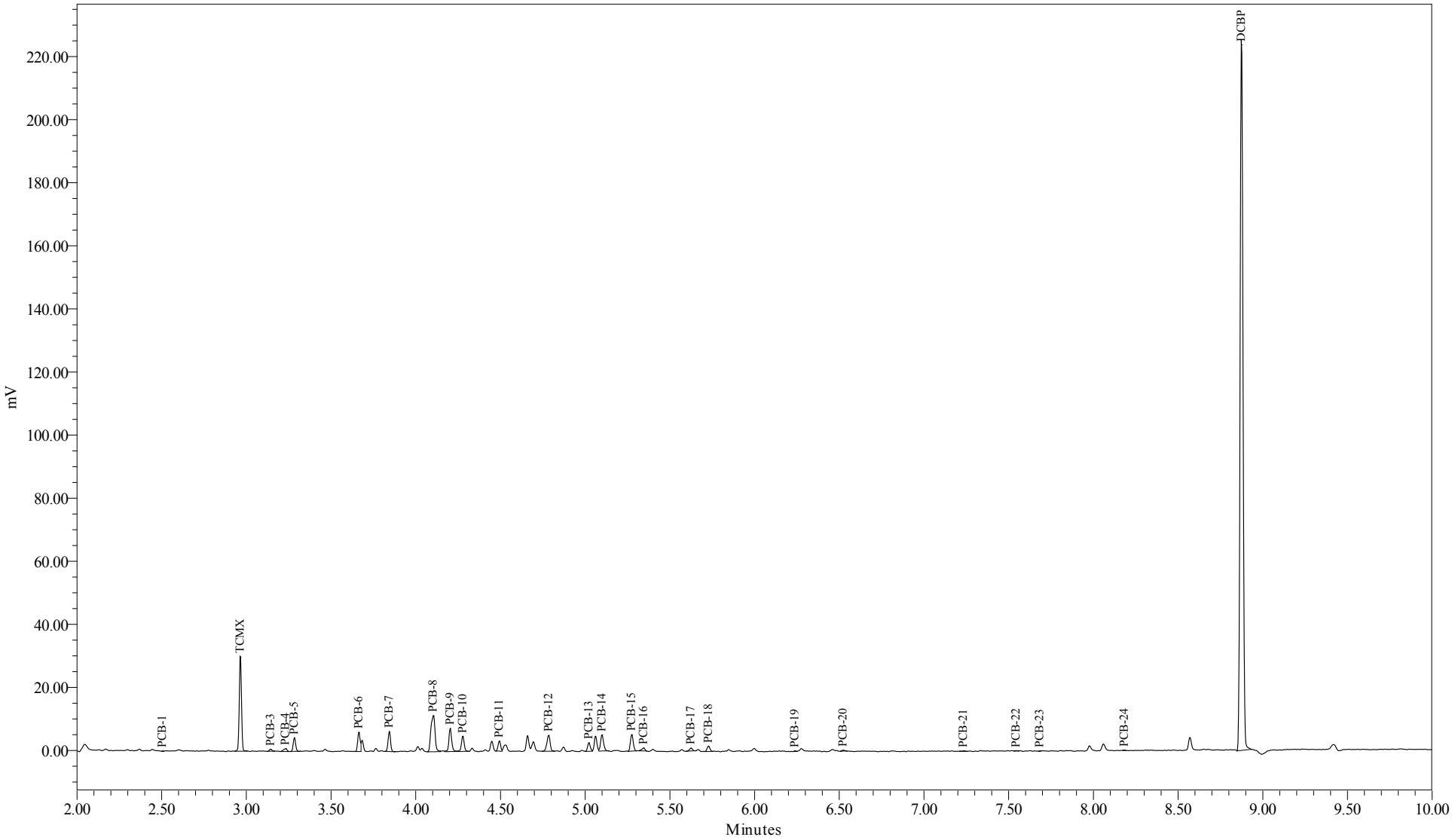

Sample Name:	AR41292K	Sample Amount (L) :	1.0200
Sample ID:	MW-1 MSD	Dilution:	10
Date Acquired:	10/31/2014 9:12:26 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-42 [m]

Sample Name: AR41292K

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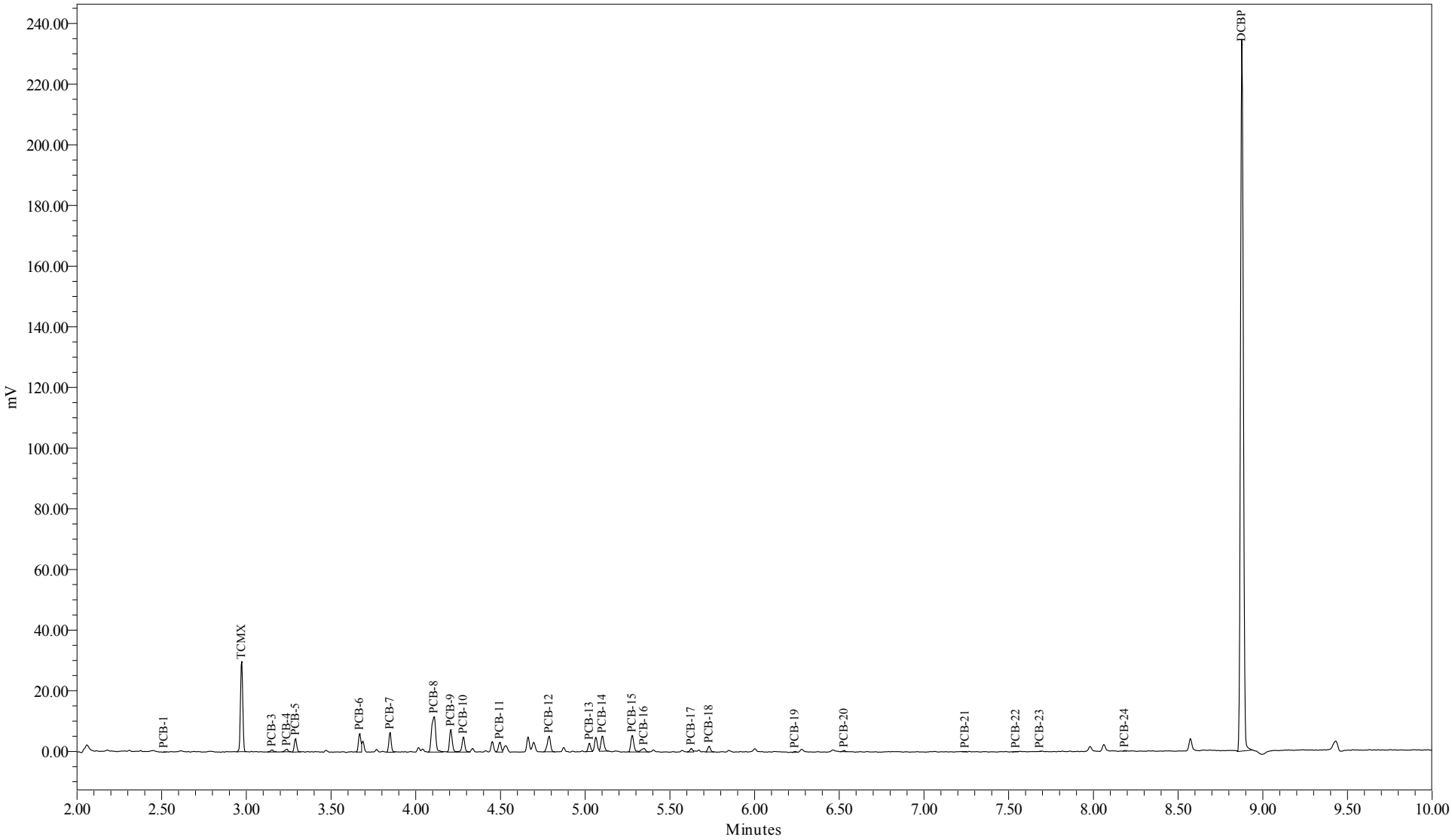

Sample Name:	AR41292M	Sample Amount (L) :	0.9400
Sample ID:	MW-1 MS	Dilution:	10
Date Acquired:	10/31/2014 8:58:34 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-41 [m]

Sample Name: AR41292M

7

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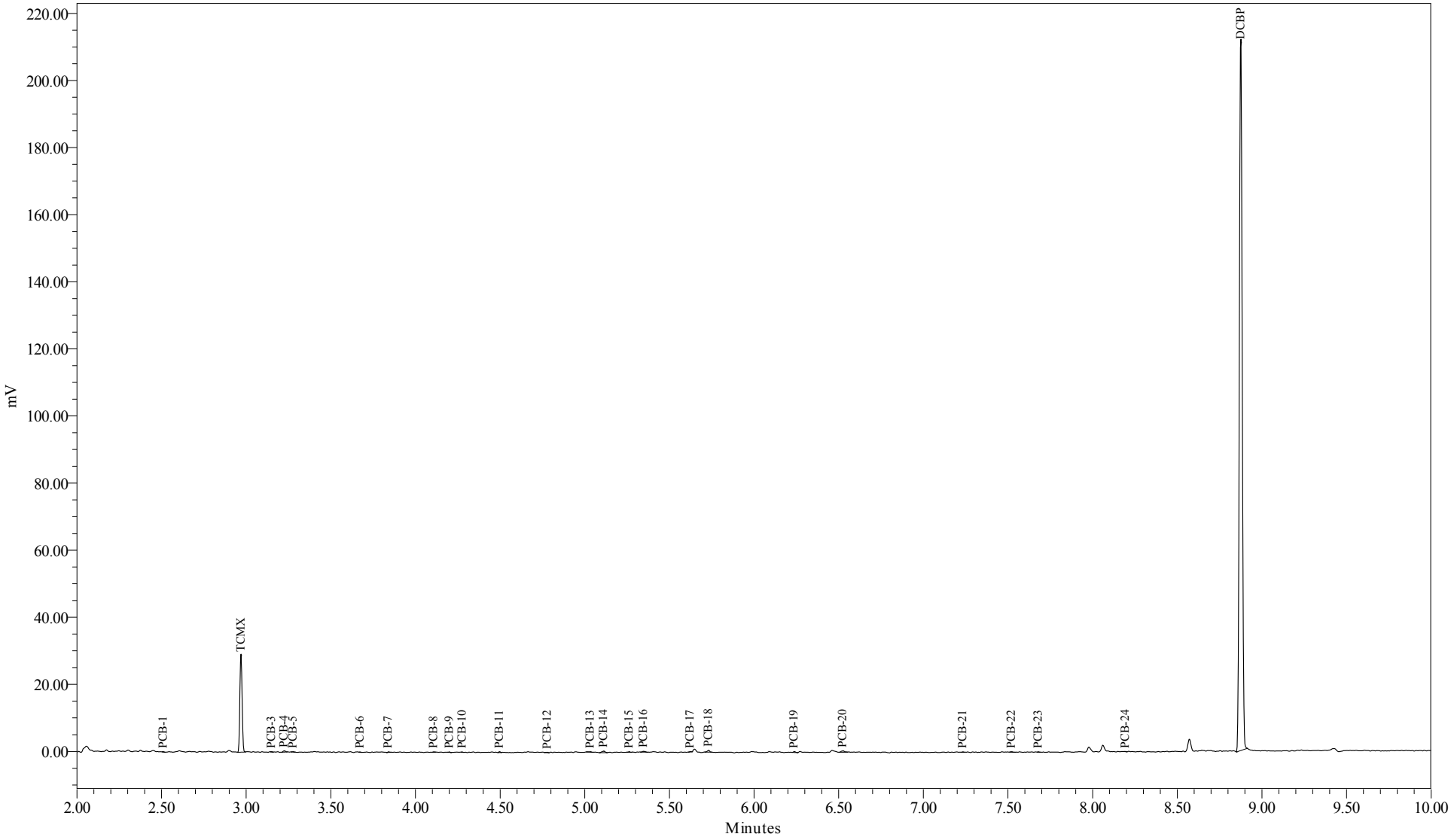

Sample Name:	AR41293	Sample Amount (L) :	1.0500
Sample ID:	MW-101	Dilution:	10
Date Acquired:	10/31/2014 11:03:52 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-50 [m]

Sample Name: AR41293

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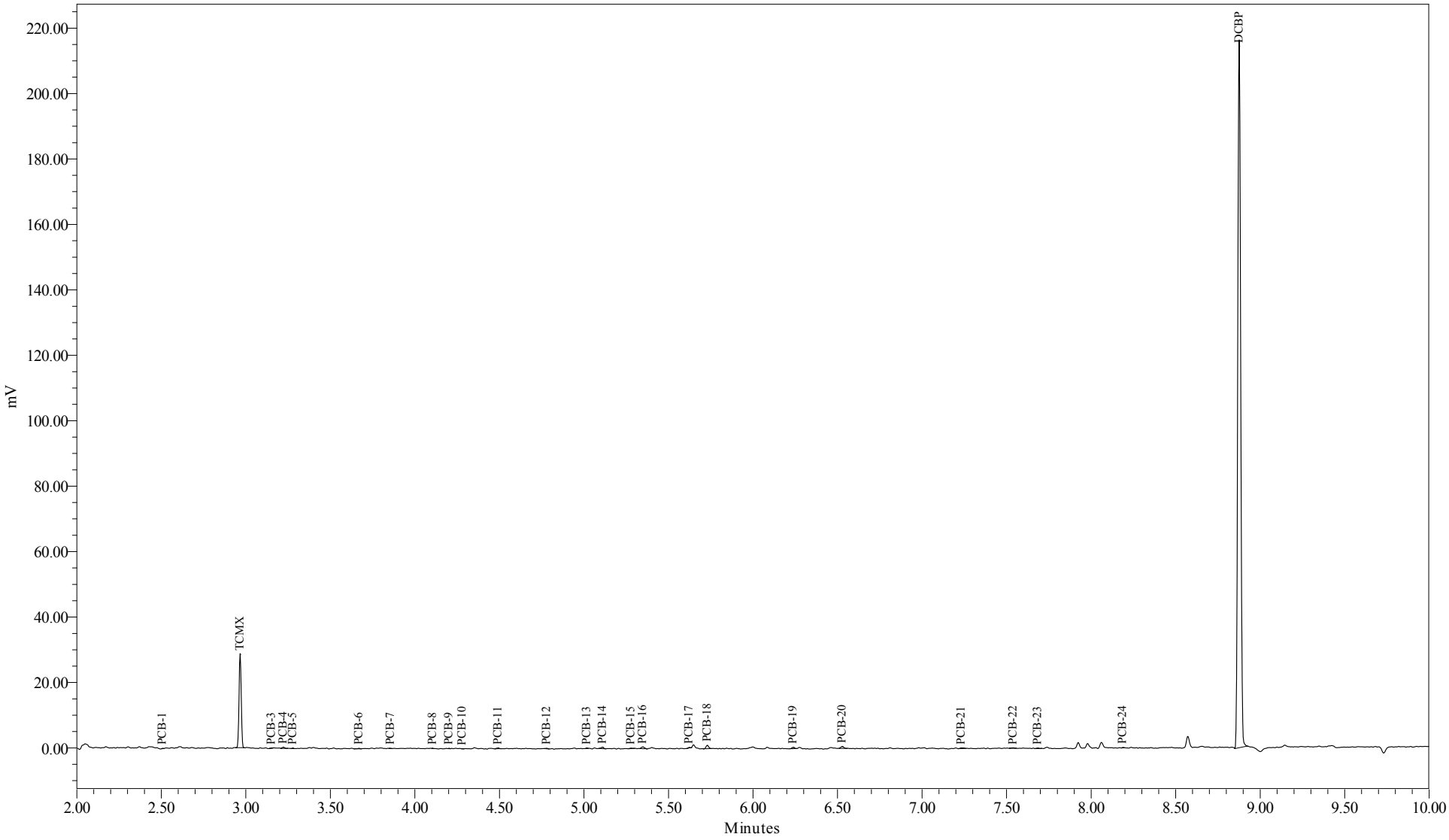

Sample Name:	AR41294	Sample Amount (L) :	1.0000
Sample ID:	MW-2	Dilution:	10
Date Acquired:	10/31/2014 11:17:42 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-51 [m]

Sample Name: AR41294

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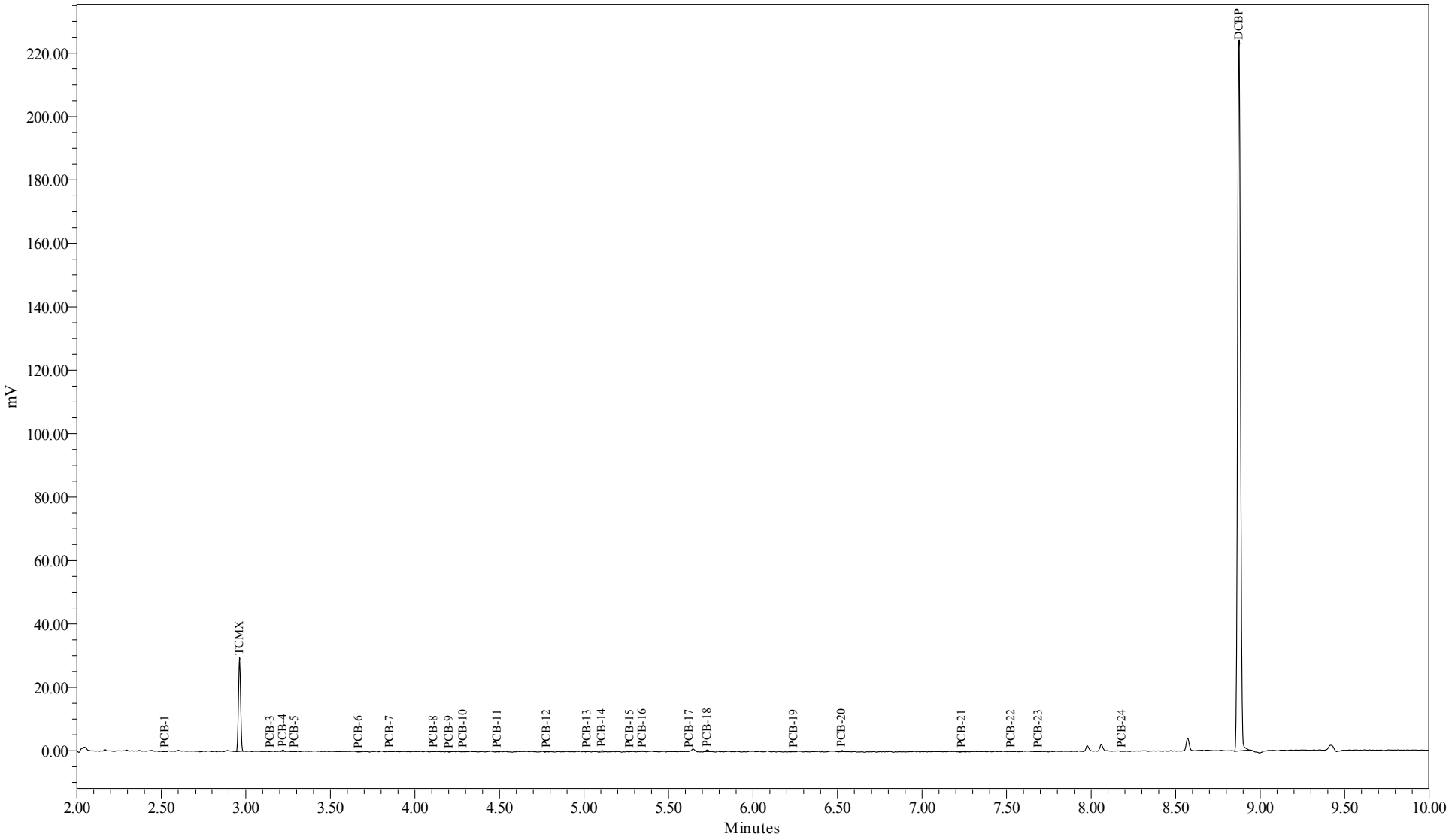

Sample Name:	AR41295	Sample Amount (L) :	1.0500
Sample ID:	MW-3	Dilution:	10
Date Acquired:	10/31/2014 11:31:28 PM EDT	Processing Method:	GC28B_LLCC_050114b
		LIMS File ID:	GC28B-1465-52 [m]

Sample Name: AR41295

7

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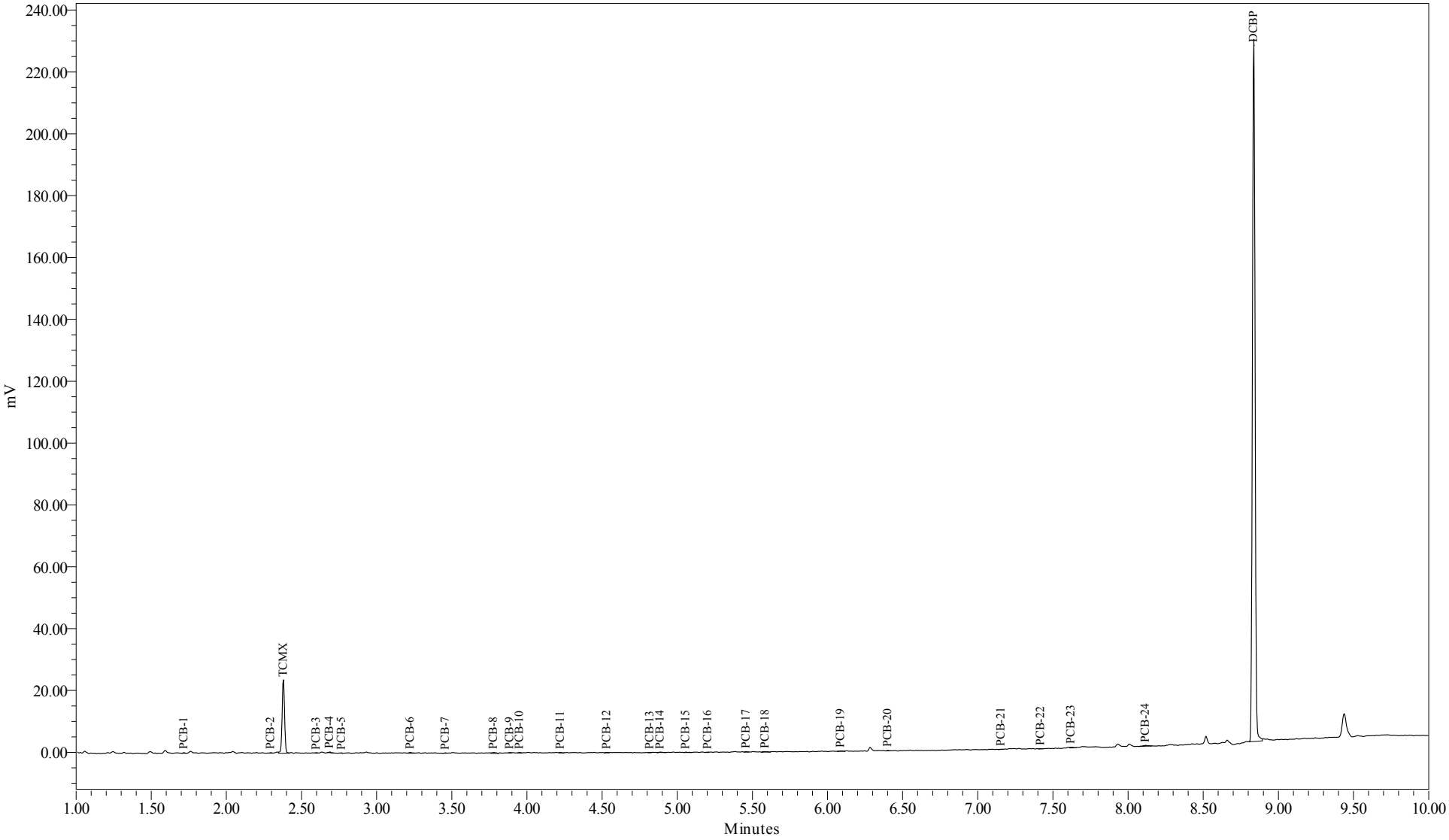

Sample Name:	AR40884BRR1	Sample Amount (L) :	1.0000
Sample ID:	METHOD BLANK	Dilution:	10
Date Acquired:	10/31/2014 8:03:06 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-37 [m]

Sample Name: AR40884BRR1

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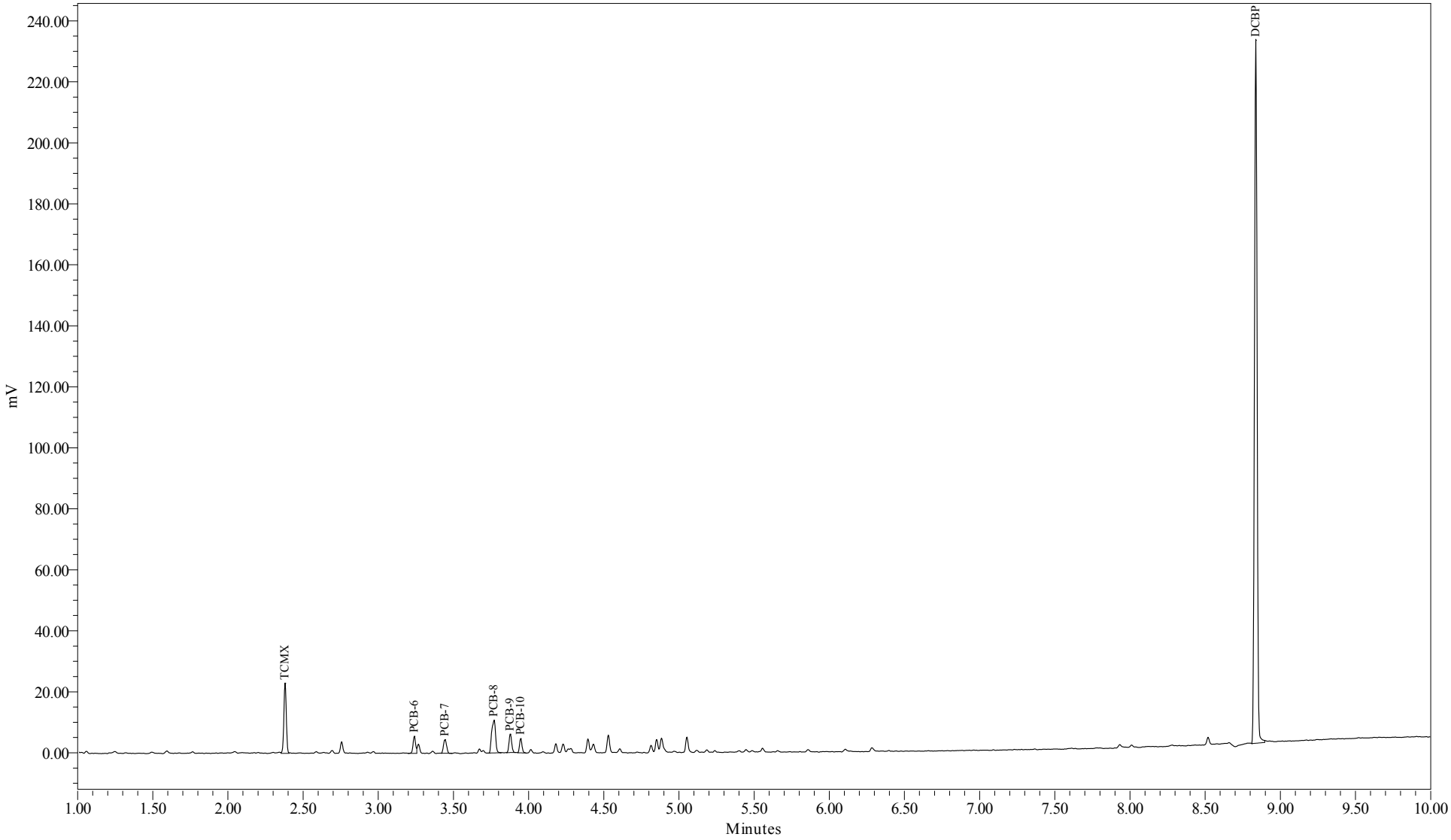

Sample Name:	AR40884L	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE	Dilution:	10
Date Acquired:	10/31/2014 8:30:52 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-39 [m]

Sample Name: AR40884L

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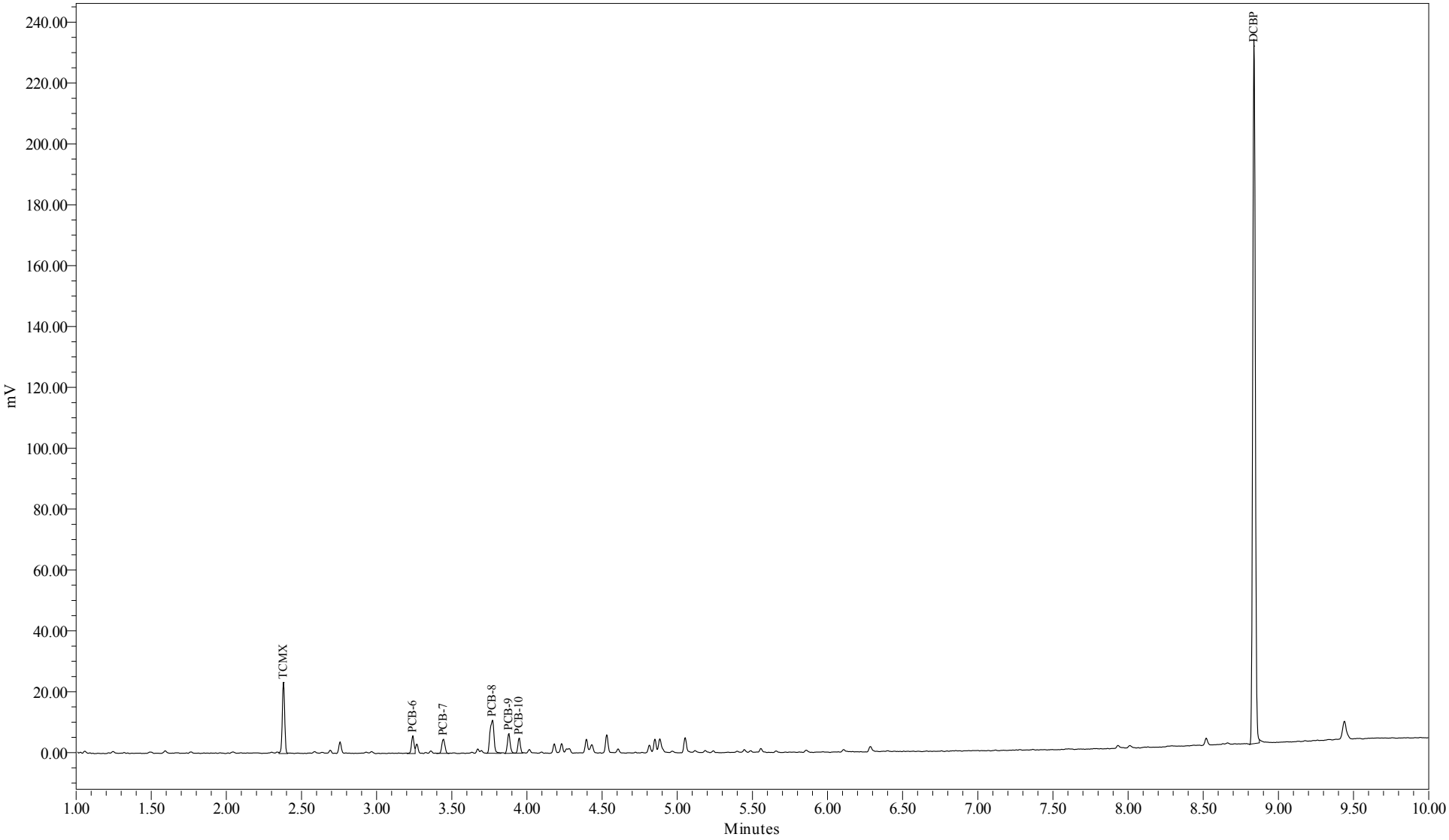

Sample Name:	AR40884S	Sample Amount (L) :	1.0000
Sample ID:	LAB CONTROL SPIKE DUPLICATE	Dilution:	10
Date Acquired:	10/31/2014 8:44:39 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-40 [m]

Sample Name: AR40884S

7

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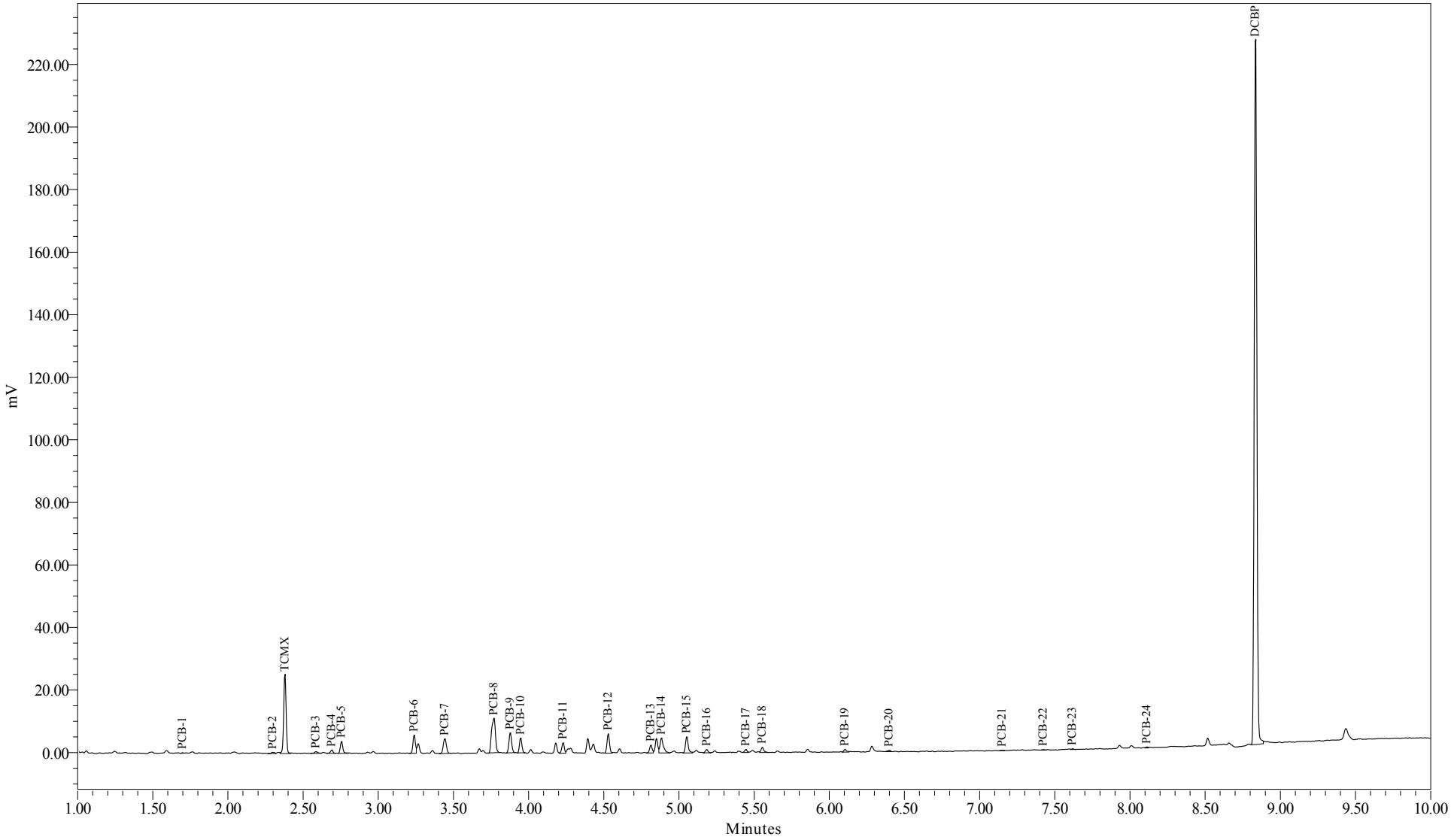

Sample Name:	AR41292K	Sample Amount (L) :	1.0200
Sample ID:	MW-1 MSD	Dilution:	10
Date Acquired:	10/31/2014 9:12:22 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-42 [m]

Sample Name: AR41292K

7

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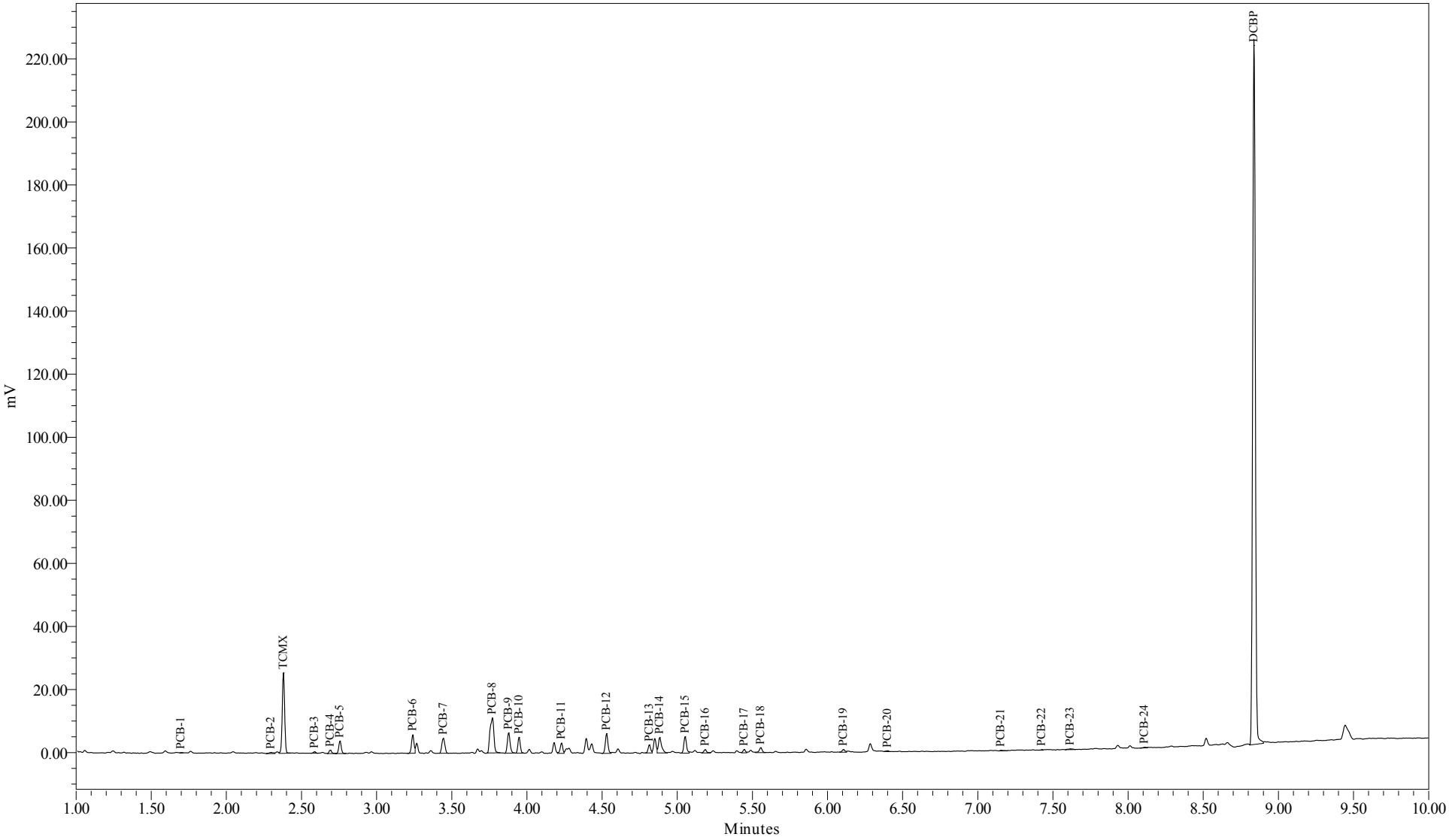

Sample Name:	AR41292M	Sample Amount (L) :	0.9400
Sample ID:	MW-1 MS	Dilution:	10
Date Acquired:	10/31/2014 8:58:30 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-41 [m]

Sample Name: AR41292M

7

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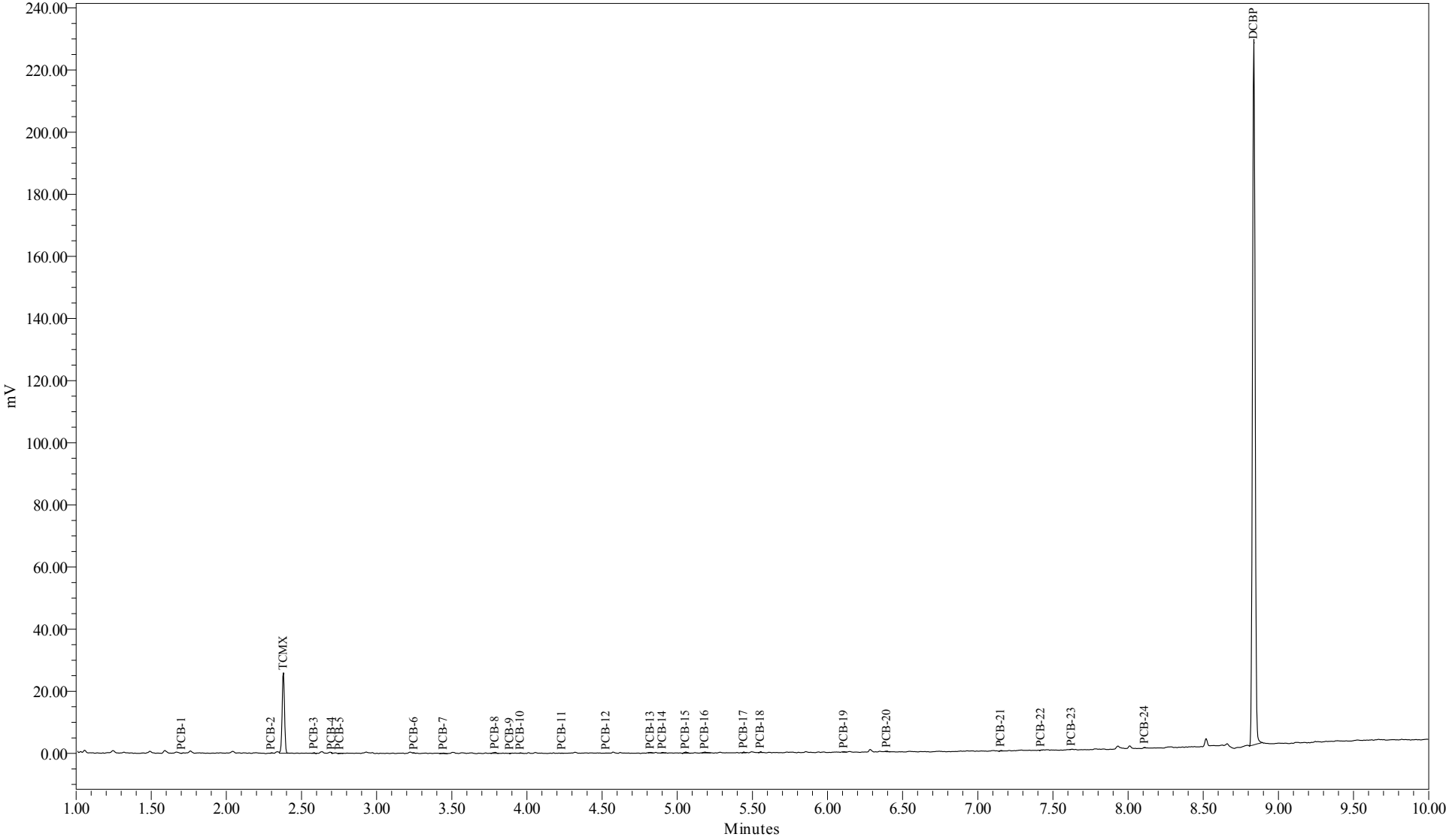

Sample Name:	AR41292	Sample Amount (L) :	1.0700
Sample ID:	MW-1	Dilution:	10
Date Acquired:	10/31/2014 10:50:04 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-49 [m]

Sample Name: AR41292

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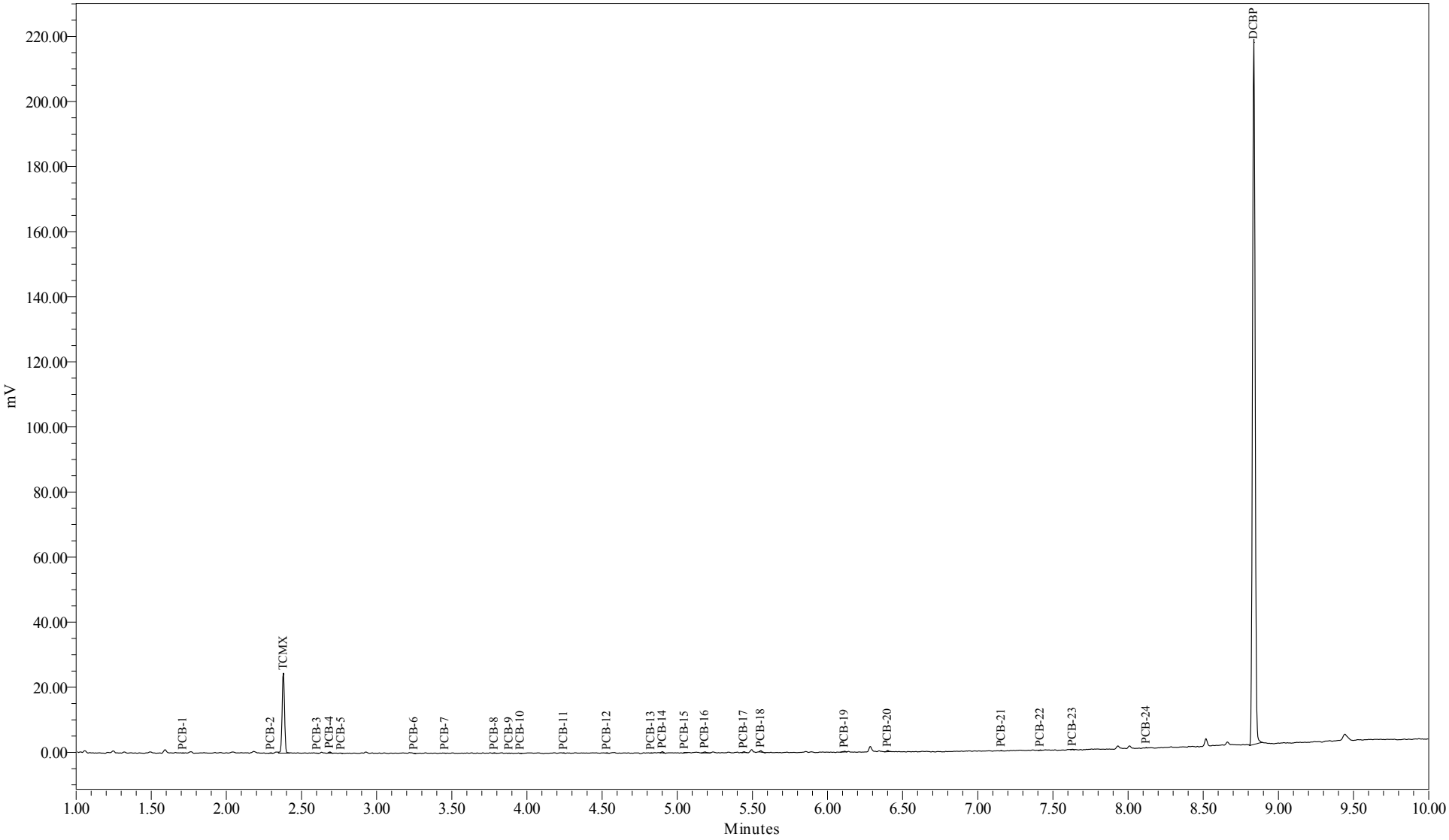

Sample Name:	AR41293	Sample Amount (L) :	1.0500
Sample ID:	MW-101	Dilution:	10
Date Acquired:	10/31/2014 11:03:48 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-50 [m]

Sample Name: AR41293

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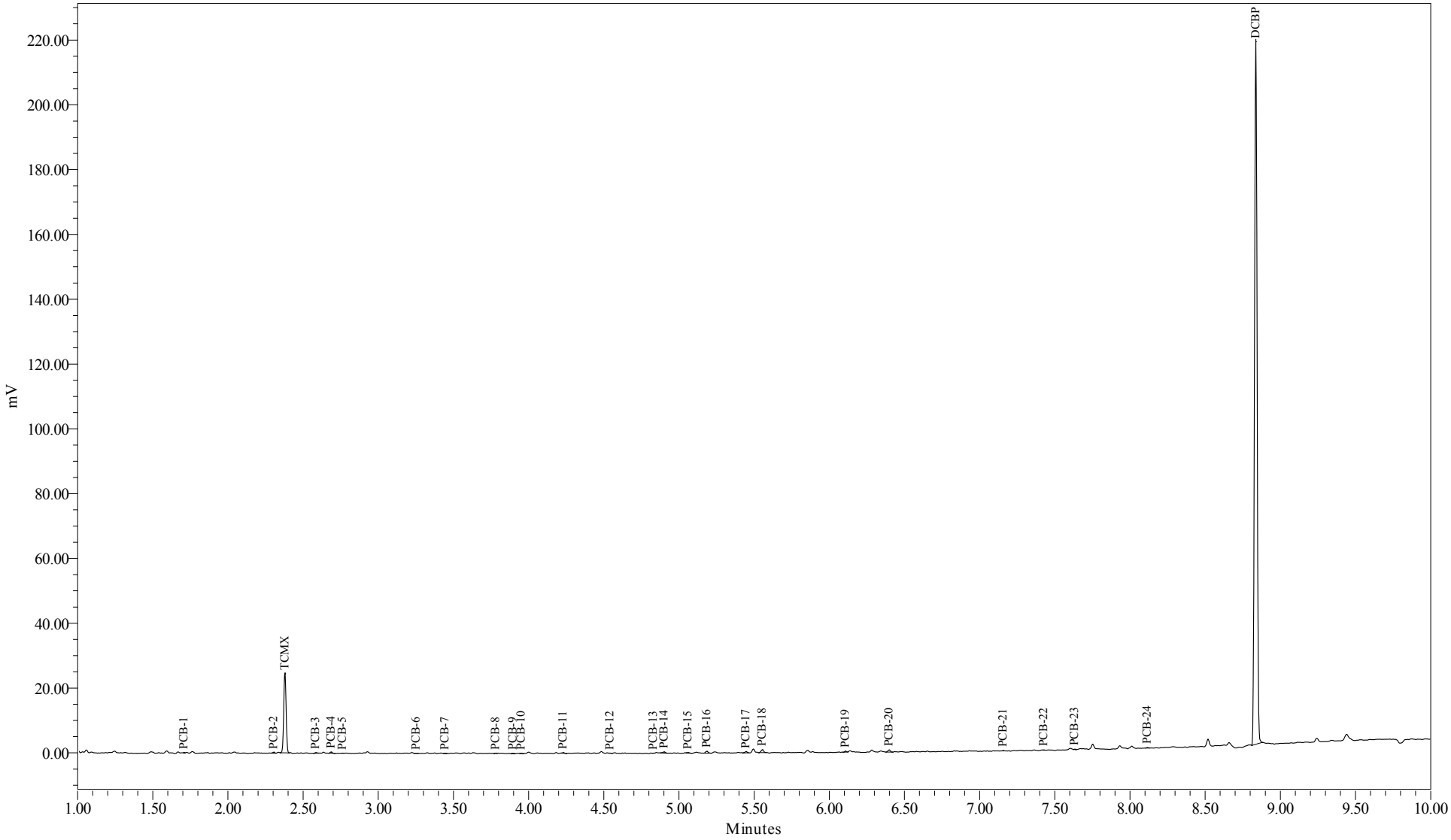

Sample Name:	AR41294	Sample Amount (L) :	1.0000
Sample ID:	MW-2	Dilution:	10
Date Acquired:	10/31/2014 11:17:38 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-51 [m]

Sample Name: AR41294

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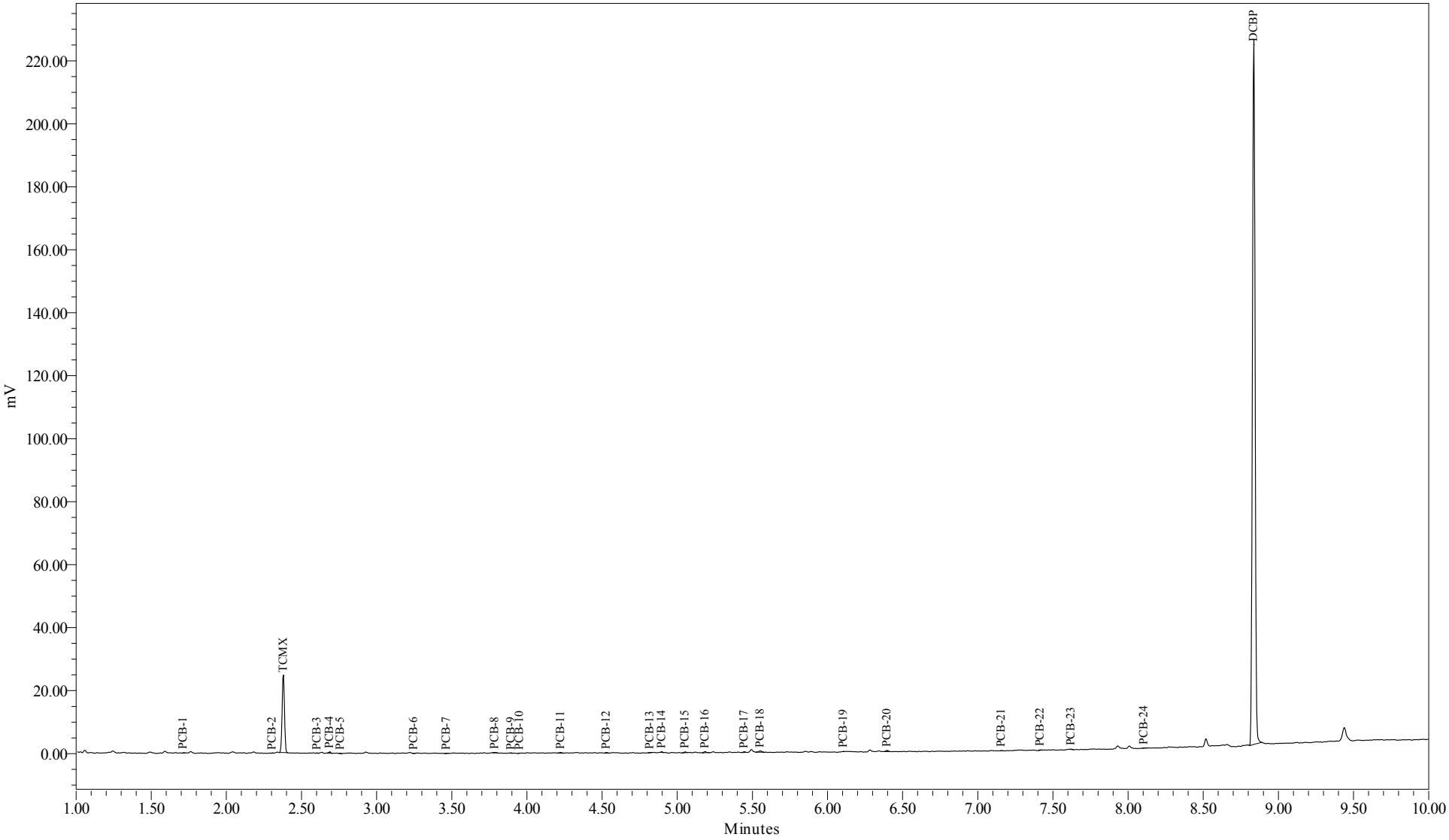

Sample Name:	AR41295	Sample Amount (L) :	1.0500
Sample ID:	MW-3	Dilution:	10
Date Acquired:	10/31/2014 11:31:24 PM EDT	Processing Method:	GC28F_LLCC_050114a
		LIMS File ID:	GC28F-1468-52 [m]

Sample Name: AR41295

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October 31, 2014

David Sullivan
TRC Environmental Corporation - Lowell
650 Suffolk Street
Lowell, MA 01852

Project Location: KMS-New Bedford
Client Job Number:
Project Number: 223832
Laboratory Work Order Number: 14J1238

Enclosed are results of analyses for samples received by the laboratory on October 24, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

REPORT DATE: 10/31/2014

PURCHASE ORDER NUMBER: 73682

PROJECT NUMBER: 223832

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14J1238

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

PROJECT LOCATION: KMS-New Bedford

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	14J1238-01	Ground Water		SW-846 6020A	
				SW-846 7470A	
MW-101	14J1238-02	Ground Water		SW-846 6020A	
				SW-846 7470A	
MW-2	14J1238-03	Ground Water		SW-846 6020A	
				SW-846 7470A	
MW-3	14J1238-04	Ground Water		SW-846 6020A	
				SW-846 7470A	

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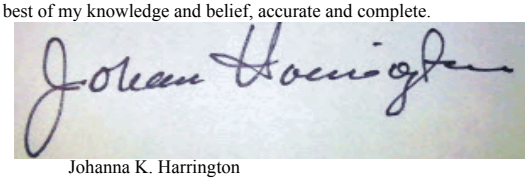
CASE NARRATIVE SUMMARY

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

For method 6020, only RCRA 8 metals 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.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY

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

Project Location: KMS-New Bedford
Sample Description:
Work Order: 14J1238

Date Received: 10/24/2014

Field Sample #: MW-1
Sampled: 10/24/2014 08:05

Sample ID: 14J1238-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.40	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH
Barium	58	10	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	10/25/14	10/27/14 10:48	SCB
Selenium	ND	5.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:04	KSH

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

Project Location: KMS-New Bedford
Sample Description:
Work Order: 14J1238

Date Received: 10/24/2014

Field Sample #: MW-101
Sampled: 10/24/2014 13:20

Sample ID: 14J1238-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.90	0.40	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:09	KSH
Barium	230	50	µg/L	5		SW-846 6020A	10/25/14	10/30/14 14:47	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:09	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:09	KSH
Lead	2.8	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:09	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	10/25/14	10/27/14 10:49	SCB
Selenium	ND	5.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:09	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:09	KSH

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Project Location: KMS-New Bedford
Sample Description:
Work Order: 14J1238

Date Received: 10/24/2014

Field Sample #: MW-2
Sampled: 10/24/2014 10:15

Sample ID: 14J1238-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.71	0.40	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:13	KSH
Barium	520	100	µg/L	10		SW-846 6020A	10/25/14	10/30/14 14:51	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:13	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:13	KSH
Lead	ND	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:13	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	10/25/14	10/27/14 10:51	SCB
Selenium	ND	5.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:13	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:13	KSH

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Project Location: KMS-New Bedford
Sample Description:
Work Order: 14J1238

Date Received: 10/24/2014

Field Sample #: MW-3
Sampled: 10/24/2014 12:20

Sample ID: 14J1238-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.87	0.40	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:18	KSH
Barium	240	50	µg/L	5		SW-846 6020A	10/25/14	10/30/14 14:56	KSH
Cadmium	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:18	KSH
Chromium	ND	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:18	KSH
Lead	2.8	1.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:18	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	10/25/14	10/27/14 10:52	SCB
Selenium	ND	5.0	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:18	KSH
Silver	ND	0.50	µg/L	1		SW-846 6020A	10/25/14	10/27/14 21:18	KSH

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Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14J1238-01 [MW-1]	B108094	50.0	50.0	10/25/14
14J1238-02 [MW-101]	B108094	50.0	50.0	10/25/14
14J1238-03 [MW-2]	B108094	50.0	50.0	10/25/14
14J1238-04 [MW-3]	B108094	50.0	50.0	10/25/14

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14J1238-01 [MW-1]	B108087	6.00	6.00	10/25/14
14J1238-02 [MW-101]	B108087	6.00	6.00	10/25/14
14J1238-03 [MW-2]	B108087	6.00	6.00	10/25/14
14J1238-04 [MW-3]	B108087	6.00	6.00	10/25/14

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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 B108087 - SW-846 7470A Prep										
Blank (B108087-BLK1)				Prepared: 10/25/14 Analyzed: 10/27/14						
Mercury	ND	0.00010	mg/L							
LCS (B108087-BS1)				Prepared: 10/25/14 Analyzed: 10/27/14						
Mercury	0.00209	0.00010	mg/L	0.00200		104	80-120			
LCS Dup (B108087-BSD1)				Prepared: 10/25/14 Analyzed: 10/27/14						
Mercury	0.00212	0.00010	mg/L	0.00200		106	80-120	1.66	20	
Duplicate (B108087-DUP1)		**Source: 14J1238-01**		Prepared: 10/25/14 Analyzed: 10/27/14						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B108087-MS1)		**Source: 14J1238-01**		Prepared: 10/25/14 Analyzed: 10/27/14						
Mercury	0.00216	0.00010	mg/L	0.00200	ND	108	75-125			
Matrix Spike Dup (B108087-MSD1)		**Source: 14J1238-01**		Prepared: 10/25/14 Analyzed: 10/27/14						
Mercury	0.00223	0.00010	mg/L	0.00200	ND	111	75-125	2.87	20	
Batch B108094 - SW-846 3005A Dissolved										
Blank (B108094-BLK1)				Prepared: 10/25/14 Analyzed: 10/27/14						
Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
LCS (B108094-BS1)				Prepared: 10/25/14 Analyzed: 10/27/14						
Arsenic	248	2.0	µg/L	250		99.4	80-120			
Barium	250	50	µg/L	250		100	80-120			
Cadmium	247	2.5	µg/L	250		99.0	80-120			
Chromium	252	5.0	µg/L	250		101	80-120			
Lead	248	5.0	µg/L	250		99.1	80-120			
Selenium	241	25	µg/L	250		96.2	80-120			
Silver	249	2.5	µg/L	250		99.5	80-120			
LCS Dup (B108094-BSD1)				Prepared: 10/25/14 Analyzed: 10/27/14						
Arsenic	252	2.0	µg/L	250		101	80-120	1.39	20	
Barium	255	50	µg/L	250		102	80-120	1.83	20	
Cadmium	247	2.5	µg/L	250		98.9	80-120	0.0545	20	
Chromium	253	5.0	µg/L	250		101	80-120	0.396	20	
Lead	259	5.0	µg/L	250		103	80-120	4.32	20	
Selenium	246	25	µg/L	250		98.6	80-120	2.41	20	
Silver	254	2.5	µg/L	250		102	80-120	2.18	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 B108094 - SW-846 3005A Dissolved										
Duplicate (B108094-DUP2)		**Source: 14J1238-01**		Prepared: 10/25/14 Analyzed: 10/27/14						
Arsenic	ND	0.40	µg/L		ND			NC	20	
Barium	58.3	10	µg/L		57.8			0.771	20	
Cadmium	ND	0.50	µg/L		ND			NC	20	
Chromium	ND	1.0	µg/L		ND			NC	20	
Lead	ND	1.0	µg/L		ND			NC	20	
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Matrix Spike (B108094-MS2)		**Source: 14J1238-01**		Prepared: 10/25/14 Analyzed: 10/27/14						
Arsenic	246	4.0	µg/L	250	ND	98.4	75-125			
Barium	320	100	µg/L	250	57.8	105	75-125			
Cadmium	245	5.0	µg/L	250	ND	97.8	75-125			
Chromium	250	10	µg/L	250	0.890	100	75-125			
Lead	251	10	µg/L	250	ND	100	75-125			
Selenium	238	50	µg/L	250	ND	95.1	75-125			
Silver	224	5.0	µg/L	250	ND	89.7	75-125			
Matrix Spike Dup (B108094-MSD2)		**Source: 14J1238-01**		Prepared: 10/25/14 Analyzed: 10/27/14						
Arsenic	248	4.0	µg/L	250	ND	99.3	75-125	0.924	20	
Barium	326	100	µg/L	250	57.8	107	75-125	1.80	20	
Cadmium	248	5.0	µg/L	250	ND	99.1	75-125	1.29	20	
Chromium	253	10	µg/L	250	0.890	101	75-125	1.29	20	
Lead	251	10	µg/L	250	ND	100	75-125	0.144	20	
Selenium	240	50	µg/L	250	ND	95.9	75-125	0.830	20	
Silver	231	5.0	µg/L	250	ND	92.3	75-125	2.83	20	

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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.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020A in Water	
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	MA,NY,CT,NC,NH,ME,VA,NJ
Cadmium	CT,NH,NY,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NC,NH,NY,ME,VA,NJ
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA,NJ

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

14J1235

Rev 04.05.12

Company Name: TRC Environmental
Address: 650 Suffolk St.
Lowell, MA 01854
Attention: Dave Sullivan
Project Location: KMS - New Bedford
Sampled By: ACT

Telephone: 978-970-5600
Project #: 223832
Client PO#: 73682

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: dsullivan@trcsolutions.com
Format: ☒ PDF ☒ EXCEL ☒ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	RCRA 8 Metals (Dissolved)														# of Containers	** Preservation	***Container Code
01	MW-1 **	10/24/14	0805		X	GW	U	X																
02	MW-101	↓	1320		X	↓	↓	X																
03	MW-2	↓	1015		X	↓	↓	X																
04	MW-3	↓	1220		X	↓	↓	X																

Comments:
* Please run MS/DUP on MW-1

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)	10/24/14	Date/Time: 1530
Received by: (signature)	10/24/14	Date/Time: 15:30
Relinquished by: (signature)	10/24/14	Date/Time: 1830
Received by: (signature) Rebecca Faust	10/24/14	Date/Time: 1830

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5-day

RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: MW-1 (GW-3) MW-2 / MW-3 (GW-1, GW-2, GW-3)
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

Dissolved Metals
☒ Field Filtered
○ Lab to Filter

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

†† TURNAROUND TIME 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 BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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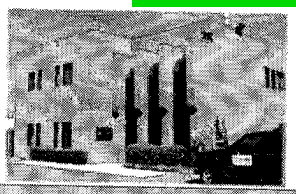


Sample Receipt Checklist

CLIENT NAME: TRC RECEIVED BY: RLF DATE: 10/24/14

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

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 5.2°C

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

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

7) Location where samples are stored: 19

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

8) Do all samples have the proper Acid pH: (Yes) No N/A _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

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)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	6	Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

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

Time and Date Frozen:

Doc# 277
Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** **Date/Time:**

RLF 10/24/14 1830

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 14J1238
Project Location: KMS-New Bedford	RTN:

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

14J1238-01 thru 14J1238-04

Matrices: Water

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 ( )	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 throughF 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?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ 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?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ 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).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ 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 Qestions A through E)?	☑ Yes	☐ No[1]

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

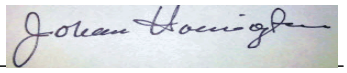
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***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 perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ 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: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington Date: 10/31/14