



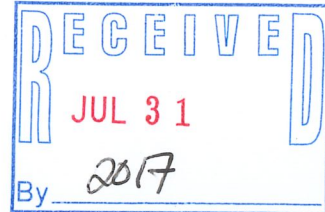
Wisconsin Public Service Corporation

700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 21, 2017

Mr. Pablo Valentín  
USEPA Region 5 – SR6J  
77 W. Jackson Boulevard  
Chicago, Illinois 60604-3590



**RE: June 2017 Monthly Progress Report**  
Wisconsin Public Service Corporation  
**CERCLA Docket No. V-W-07-C-862**

Please find enclosed the monthly progress report for the Wisconsin Public Service Corporation's Sheboygan – Campmarina former manufactured gas plant site. If you have any questions, please don't hesitate to contact me at (920) 433-2643 or [bfbartoszek@integrysgroup.com](mailto:bfbartoszek@integrysgroup.com).

Sincerely,

A handwritten signature in black ink, appearing to be 'BBA' with a long horizontal stroke extending to the right.

Brian Bartoszek, P.E.  
Manager – Remediation

Enclosures as noted

cc: Mr. John Feeney, WDNR (hardcopy and email)



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OBG | There's a Way

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July 21, 2017

**Mr. Brian Bartoszek**  
**WEC Business Services, LLC**  
700 N. Adams Street  
Green Bay, WI 54307  
(via email only)

**Subject:** June 2017 Monthly Progress Report  
*Campmarina Former MGP, Sheboygan, Wisconsin*  
*Wisconsin Public Service Corporation (WPSC)*  
*CERCLA Docket No. V-W-07-C-862, EPA Site ID - B5DA, CERCLIS ID - WIN000510058*  
NRT Project No. 1313

Dear Mr. Bartoszek:

Natural Resource Technology, Inc. (NRT), an OBG Company, is providing this Monthly Progress Report for the WPSC Campmarina Former Manufactured Gas Plant (MGP) Site.

### 1) PROGRESS MADE DURING THE PAST MONTH

- Completed and submitted monthly progress report to United States Environmental Protection Agency (USEPA)
- Completed second quarter 2017 field-measured parameter and groundwater sampling event June 5, 2017
- Performed Five-Year Review sediment sampling June 6, 2017
- Initiated the Sheboygan-Campmarina River Operable Unit Five-Year Review Data Summary Technical Memorandum

### 2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Analytical results from the June 2017 groundwater sampling event was received and is attached
- Analytical results from the June 2017 Five-Year Review sediment sampling event was received and is attached

### 3) PROJECTED WORK

- USEPA Five-Year Review site inspection (completed July 13, 2017).
- Submit the Sheboygan-Campmarina River Operable Unit Five-Year Review Data Summary Technical Memorandum (July 5, 2017)
- USEPA review of the Sheboygan-Campmarina River Operable Unit Five-Year Review Data Summary Technical Memorandum



234 W. Florida Street, Fifth Floor  
Milwaukee, WI 53204



p 414-837-3607  
f 414-837-3608



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#### 4) ANTICIPATED SCHEDULE

For Additional details, please refer to the December 2016 Progress Report.

Deliverable or Milestone	Target Date	Actual Date
<b>Upland Operable Unit</b>		
Draft Upland Operable Unit (OU) Technical Letter – Revision 0 to USEPA	April 26, 2007	April 26, 2007
Receive USEPA Comments on Draft Upland OU Technical Letter		December 6, 2007
Upland OU Work Plan – Rev 0 to USEPA	Within 60 days of receiving USEPA’s Technical Scoping Meeting Summary	
Receive USEPA Comments on Upland OU Work Plan – Revision 0	TBD	
Submit Technical Memorandum to discontinue operation of the biosparge system		October 19, 2010
Receive USEPA Comments on TI Report		May 1, 2014
Submit TI Report - Revision 1		July 1, 2014
2016 Groundwater Levels and Natural Attenuation Parameters Sampling	March, June, September, December	March 17, June 15, September 14, December 13
2017 Groundwater Levels and Natural Attenuation Parameters Sampling	March, June, September, December	March 16, June 5
<b>River Operable Unit</b>		
Submit Construction Completion Report Revision 1		October 30, 2013
USEPA signs No Further Action Record of Decision for River OU		September 25, 2012
Receive USEPA Approval for Construction Completion Report Rev 1 (submitted October 30, 2013)		April 17, 2014
USEPA’s Five-Year Review Sediment Sampling	June 2017	June 6, 2017
USEPA’s Five-Year Review Data Summary Technical Memorandum	July 2017	July 5, 2017
USEPA’s Five-Year Review Site Inspection	July 2017	July 13, 2017
USEPA’s Five-Year Review (per the USEPA’s December 15, 2016 letter)	September 25, 2017	

**5) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED**

- None.

**6) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS**

- None

Please contact the undersigned if you should have any questions regarding the content of this progress report.

Sincerely,  
**NRT | An OBG Company**

*Andrew Cawrse*

**Andrew G. Cawrse**  
Environmental Scientist

Enclosures: June 2017 Groundwater Analytical Results  
June 2017 Sediment Analytical Results

For distribution to: Mr. Pablo Valentín, USEPA (via email and hard copy)  
Mr. John Feeney, WDNR (via email and hard copy)

**Table 1. June 2017 Groundwater Analytical Results - PAHs**

Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 0260000095 FID#: 460134950 USEPA#: WIN000510058

Sample Location	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
		Total PAHs (Lab Calc)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
060517001 MW-709R	6/5/2017	0.030	<0.0063 U	<0.0053 U	<0.0065 U	<0.0054 U	<0.011 U	<0.0081 U	<0.011 U	<0.0062 U	<0.0073 U	<0.0081 U	<0.014 U	<0.011 U	<0.011 U	<0.0086 U	<0.019 U	<0.020 U	<0.015 U	0.0086 J
060517002 MW-708	6/5/2017	0.046	<0.0061 U	0.0053 J	<0.0063 U	<0.0052 U	<0.011 U	<0.0079 U	<0.011 U	<0.0060 U	<0.0071 U	<0.0079 U	<0.014 U	<0.010 U	<0.011 U	<0.0083 U	<0.018 U	0.019 J	<0.014 U	<0.0080 U
060517003 PZ-703	6/5/2017	0.75	0.018 J	<0.0049 U	0.25	0.18	<0.010 U	<0.0075 U	<0.010 U	<0.0057 U	<0.0067 U	<0.0075 U	<0.013 U	<0.0099 U	0.011 J	0.13	<0.017 U	0.070 J	0.061 J	0.016 J
060517004 MW-707R	6/5/2017	120	32.4	<0.049 U	8.1	0.52	<0.10 U	<0.076 U	<0.11 U	<0.057 U	<0.068 U	<0.076 U	<0.13 U	<0.10 U	0.25 J	2.8	<0.18 U	73.7	1.8	0.24 J
060517005 PZ-702	6/5/2017	0.069	<0.0057 U	<0.0047 U	<0.0058 U	<0.0048 U	<0.010 U	<0.0073 U	<0.010 U	<0.0055 U	<0.0065 U	<0.0073 U	<0.013 U	<0.0096 U	<0.010 U	<0.0077 U	<0.017 U	0.028 J	<0.013 U	0.011 J
060517006 MW-706	6/5/2017	1,070	90.3	81.0	5.3	69.9	2.0 J	<0.60 U	<0.84 U	<0.46 U	<0.54 U	<0.60 U	<1.0 U	<0.80 U	2.1 J	8.7	<1.4 U	794	10.4	2.8 J
060517007 MW-701R	6/5/2017	694	72.4	56.5	43.2	0.79 J	<0.84 U	<0.60 U	<0.84 U	<0.46 U	<0.54 U	<0.60 U	<1.0 U	<0.80 U	1.5 J	7.3	<1.4 U	494	14.6	1.4 J
060517008 MW-701R DUP	6/5/2017	940	83.8	70.6	65.2	0.59 J	<0.84 U	<0.60 U	<0.84 U	<0.46 U	<0.54 U	<0.60 U	<1.0 U	<0.80 U	1.9 J	12.4	<1.4 U	678	25.0	2.3 J
060517009 PZ-701	6/5/2017	0.27	<0.0058 U	<0.0049 U	<0.0060 U	0.0070 J	0.012 J	0.010 J	<0.010 U	0.018 J	0.014 J	0.012 J	0.024 J	<0.0099 U	0.043 J	<0.0079 U	<0.017 U	0.030 J	0.020 J	0.055
060517010 Equipment Blank	6/5/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
060517011 Trip Blank	6/5/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
060517012 MW-705	6/5/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
060517013 SG-703	6/5/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

[O:ECK 7/7/17, C:SGW 7/10/17, QA: AGC 7/13/17]

**Notes**

- = Analysis not performed
- < = Concentration is less than reported limit
- U = Not detected
- J = Estimated concentration at or above the LOD and below the Limit of Quantification (LOQ)
- Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
- PAH = Polycyclic Aromatic Hydrocarbons
- TPAH = Total PAHs
- Total PAHs were calculated by the laboratory.
- DUP = Quality control field duplicate sample
- µg/L = micrograms per liter



**Table 2. June 2017 Groundwater Analytical Results - BTEX, Inorganics, and RNA**

Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 0260000095 FID#: 460134950 USEPA#: WIN000510058

Sample Location	Sample Date	BTEX	BTEX	BTEX	BTEX	Inorganics	Inorganics	Inorganics	RNA	RNA	RNA	RNA	RNA	RNA	RNA	
		Benzene	Ethylbenzene	Toluene	Xylenes, Total	Methane	Nitrogen, NO2 + NO3, Total	Sulfate, Total	Dissolved Oxygen	Groundwater, depth to	Oxidation Reduction Potential	PH, Field	Specific Conductance, Field	Temperature, Water	Turbidity, Quantitative	
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	feet	millivolts	s.u.	µS/cm	deg C	NTU	
060517001	MW-709R	6/5/2017	<0.50 U	<0.50 U	<0.50 U	<1.5 U	706	<95 U	71,200	0.27	4.39	-92.5	7.16	1527.5	12	6.78
060517002	MW-708	6/5/2017	<0.50 U	<0.50 U	<0.50 U	<1.5 U	<1.4 U	<95 U	52,600	1.33	9.92	2.3	7.43	2901.5	12.58	473.93
060517003	PZ-703	6/5/2017	363	180	11.9	115	708	<95 U	<1,000 U	0.19	4.21	-114.8	7.51	531.5	15.01	2.76
060517004	MW-707R	6/5/2017	1,150	1,330	16.3	354	6,720	<95 U	141,000	0.19	3.96	-187.1	7.26	1,425	15.25	24.08
060517005	PZ-702	6/5/2017	<0.50 U	<0.50 U	<0.50 U	<1.5 U	<1.4 U	<95 U	1,600 J	3.1	6.08	-18	7.76	181.9	17.01	2.73
060517006	MW-706	6/5/2017	1,330	178	784	410	5.1	550	139,000	0.31	7.68	-125.2	7.31	1049.1	15.53	54.31
060517007	MW-701R	6/5/2017	3,410	307	<25.0 U	128 J	9,110	<95 U	<5,000 U	0.12	5.11	-143.7	6.55	1000.8	16.01	365.24
060517008	MW-701R DUP	6/5/2017	3,330	300	<25.0 U	183	8,760	<95 U	<5,000 U	0.12	5.11	-143.7	6.55	1000.8	16.01	365.24
060517009	PZ-701	6/5/2017	<0.50 U	<0.50 U	<0.50 U	<1.5 U	29.9	380	145,000	0.2	4.94	-39.7	7.35	629.7	15.05	92.46
060517010	Equipment Blank	6/5/2017	<0.50 U	<0.50 U	<0.50 U	<1.5 U	--	--	--	--	--	--	--	--	--	--
060517011	Trip Blank	6/5/2017	<0.50 U	<0.50 U	<0.50 U	<1.5 U	--	--	--	--	--	--	--	--	--	--
060517012	MW-705	6/5/2017	--	--	--	--	--	--	--	--	5.86	--	--	--	--	--
060517013	SG-703	6/5/2017	--	--	--	--	--	--	--	--	1.56	--	--	--	--	--

[O:ECK 7/7/17, C:SGW 7/10/17, QC: AGC 7/13/17]

Notes

- = Analysis not performed
- < = Concentration is less than reported limit
- U = Not detected
- J = Estimated concentration at or above the LOD and below the Limit of Quantification (LOQ)
- Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
- BTEX = Benzene, Toluene, Ethylbenzene and Xylene
- DUP = Quality control field duplicate sample
- RNA = remediation by natural attenuation
- Deg C = degrees Celsius
- mg/L = milligrams per liter
- mmhos/cm = millimhos per centimeter
- NTU = Nephelometric Turbidity Unit
- µg/L = micrograms per liter
- s.u. = standard units



**Table 2 – Analytical Data Summary**  
**Five-Year Review Data Summary Report**  
**Campmarina River Operable Unit**  
**Wisconsin Public Service Corporation - Campmarina Former Manufactured Gas Plant Site**  
**732 Water Street, Sheboygan, Wisconsin**  
**USEPA #: WIN000510058 BRRS: 06-60-554716**

Unique 9-digit Code	Station Location	Depth (feet)	Sample Date	TPAH(13) <sup>1</sup>	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Percent Moisture	
Reporting Units:				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	percent

Grid 36 Samples																							
TCRA Cleanup Goal:				45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
060617007	CMP-5 YR SD001	0 - 0.5	6/6/2017	0.34	<0.0110 U	<0.0137 U	<0.0106 U	<0.0090 U	<0.0156 U	0.0215 J	0.0255	0.0449	0.0091 J	0.0178 J	0.0345	<0.0061 U	0.0761	<0.0113 U	0.0095 J	<0.0230 U	0.0352 J	0.0496	63.4
060617008	CMP-5 YR SD001	0.5 - 1.5	6/6/2017	0.18	<0.0064 U	<0.0080 U	<0.0062 U	<0.0053 U	<0.0091 U	0.0120 J	0.0167	0.0267	0.0113	0.0115 J	0.0209	0.0042 J	0.0384	<0.0066 U	0.0106 J	<0.0134 U	<0.0186 U	0.0272	37.3
060617011	CMP-5 YR- SD003	0 - 0.5	6/6/2017	0.41	<0.0098 U	<0.0122 U	<0.0095 U	<0.0081 U	<0.0140 U	0.0264	0.0299	0.0500	<0.0050 U	0.0213	0.0420	<0.0055 U	0.0867	<0.0101 U	<0.0054 U	<0.0206 U	0.0587 J	0.0643	59.1
060617012/060617013 DUPL (N)	CMP-5 YR- SD003	0.5 - 1.8	6/6/2017	0.37	0.0077 J	0.0085 J	0.0153 J	<0.0048 U	0.0284	0.0259	0.0297	0.0290	0.0041 J	0.0146	0.0287	<0.0033 U	0.0623	0.0097 J	0.0041 J	<0.0123 U	0.0646	0.0577	36.3
060617009	CMP-5YR-SD002	0 - 0.5	6/6/2017	0.40	<0.0126 U	<0.0157 U	<0.0122 U	<0.0103 U	<0.0179 U	0.0273 J	0.0296	0.0529	0.0065 J	0.0227 J	0.0383	<0.0070 U	0.0817	<0.0130 U	0.0090 J	<0.0264 U	0.0473 J	0.0580	68.1
060617010	CMP-5YR-SD002	0.5 - 1.3	6/6/2017	0.19	<0.0061 U	<0.0076 U	<0.0059 U	<0.0050 U	<0.0087 U	0.0129 J	0.0152	0.0244	0.0050 J	0.0106 J	0.0192	<0.0034 U	0.0375	<0.0063 U	0.0037 J	<0.0128 U	0.0204 J	0.0263	34.1

<b>Total Number of GRID 36 Samples Analyzed:</b>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detections:	6	1	1	1	0	1	6	6	6	5	6	6	6	1	6	1	5	0	5	6	6	6
Min:	0.18	0.0077	0.0085	0.0153	0	0.0284	0.012	0.0152	0.0244	0.0041	0.0106	0.0192	0.0042	0.0375	0.0097	0.0037	0	0.0204	0.0263	34.1		
Max:	0.41	0.0077	0.0085	0.0153	0	0.0284	0.0273	0.0299	0.0529	0.0113	0.0227	0.042	0.0042	0.0867	0.0097	0.0106	0	0.0646	0.0643	68.1		
Average:	0.32	0.0077	0.0085	0.0153	n/a	0.0284	0.021	0.0244333	0.0379833	0.0072	0.0164167	0.0306	0.0042	0.0637833	0.0097	0.00738	n/a	0.04524	0.0471833	49.716667		
TCRA:	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed TCRA:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Background/Ambient Samples																							
060617001	CMP-BKG-03	0 - 0.5	6/6/2017	2.00	<0.0097 U	<0.0121 U	0.0098 J	<0.0080 U	0.0334 J	0.122	0.171	0.283	0.134	0.119	0.215	0.0263	0.470	0.0170 J	0.107	<0.0204 U	0.244	0.306	58.8
060617002	CMP-BKG-03	0.5 - 1.6	6/6/2017	0.12	<0.0069 U	<0.0085 U	<0.0066 U	<0.0056 U	<0.0097 U	0.0107 J	0.0114 J	0.0147 J	0.0077 J	0.0080 J	0.0126 J	<0.0038 U	0.0184 J	<0.0071 U	0.0049 J	<0.0144 U	<0.0199 U	0.0148 J	41.5
060617003	CMP-BKG-06	0 - 0.5	6/6/2017	0.84	<0.0113 U	<0.0140 U	<0.0109 U	<0.0092 U	<0.0160 U	0.0494	0.0770	0.120	0.0582	0.0540	0.0918	0.0104 J	0.188	<0.0116 U	0.0478	<0.0236 U	0.0922 J	0.129	64.4
060617004	CMP-BKG-06	0.5 - 1.5	6/6/2017	0.44	<0.0060 U	<0.0075 U	<0.0058 U	<0.0050 U	0.0220 J	0.0291	0.0324	0.0606	0.0140	0.0204	0.0407	0.0038 J	0.0956	<0.0062 U	0.0160	<0.0127 U	0.0570 J	0.0658	33.5
060617005	CMP-BKG-07	0 - 0.5	6/6/2017	0.81	<0.0123 U	<0.0152 U	<0.0118 U	<0.0100 U	<0.0174 U	0.0506	0.0671	0.114	0.0321	0.0436	0.0856	<0.0068 U	0.186	<0.0126 U	0.0298	<0.0256 U	0.0945 J	0.125	67.2
060617006	CMP-BKG-07	0.5 - 0.9	6/6/2017	0.51	<0.0049 U	<0.0061 U	<0.0047 U	<0.0040 U	0.0095 J	0.0294	0.0438	0.0674	0.0392	0.0300	0.0549	0.0072 J	0.116	0.0060 J	0.0271	<0.0102 U	0.0661	0.0808	17.8

<b>Total Number of Background/Ambient Samples Analyzed:</b>	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detections:	6	0	0	1	0	3	6	6	6	6	6	6	6	4	6	2	6	0	5	6	6	6
Min:	0.12	0	0	0.0098	0	0.0095	0.0107	0.0114	0.0147	0.0077	0.008	0.0126	0.0038	0.0184	0.006	0.0049	0	0.057	0.0148	17.8		
Max:	2.00	0	0	0.0098	0	0.0334	0.122	0.171	0.283	0.134	0.119	0.215	0.0263	0.47	0.017	0.107	0	0.244	0.306	67.2		
Average:	0.79	n/a	n/a	0.0098	n/a	0.0216333	0.0485333	0.0671167	0.10995	0.0475333	0.0458333	0.0834333	0.011925	0.179	0.0115	0.0387667	n/a	0.11076	0.1202333	47.2		

[O:ECK 6/20/17 C:KLS 6/21/17][U:ECK 6/22/17]

**Notes**  
**No Exceedances detected**  
 < = Concentration is less than the Limit of Detection (LOD)  
 U = Concentration was not detected above the reported limit  
 J = Estimated concentration at or above the LOD and below the Limit of Quantification (LOQ)  
 (N) = Normalized sample locations created from combining parent & field duplicate samples following EPA protocol  
 DUP = Quality Control Field Duplicate Sample  
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

GEO = Geotechnical Property  
 PAH = Polycyclic Aromatic Hydrocarbon  
 TPAH = Total PAHs  
 TCRA = Time Critical Removal Action  
 NS = No Standard  
 mg/kg = milligrams per kilogram  
 n/a = not applicable as there were no detections

- The following rules apply to the summation of Total PAH (13) calculated by Natural Resource Technology, Inc. (NRT):
  - Where no detections were observed, the maximum individual reported detection limit is presented.
  - Where detections were observed, ½ the reported detection limit for non-detects was used in the summation
  - The list of Total PAH (13) is as follows: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene and Pyrene.

