



ภาคผนวก ฉ
หนังสืออนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน



ลำดับ	สารเคมี	วิธีการตรวจ
38	Phenols	1) Distillation, Chloroform Extraction Method ²¹ 2) Distillation, Direct Photometric Method ²¹
39	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
40	Sulfide	1) Iodometric Method ²¹ 2) Methylene Blue Method ²¹
41	Temperature	Laboratory and Field Methods ²¹
42	Total Dissolved Solids	Dried at 180 °C ²¹
43	Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method ²¹
44	Total Suspended Solids	Dried from 103 to 105 °C ²¹
45	Trivalent Chromium	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ²¹ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ²¹
46	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹

น้ำดื่ม จำนวน 126 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Acenaphthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
2	Acetone	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
3	Aldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
4	Anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹

5 Antimony...

ลำดับ	สารเคมี	วิธีการตรวจ
5	Antimony	Digestion, Inductively Coupled Plasma Method ²¹
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
8	Barium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
9	Benzalanthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
10	Benzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
11	Benzofluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
12	Benzofluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
14	Benzo[a]pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
15	Benzo[ghi]perylene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
16	Beryllium	Digestion, Inductively Coupled Plasma Method ²¹
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
18	Bis(2-ethoxy)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹

19 Bromochloromethane...

ลำดับ	สารเคมี	วิธีการตรวจ
19	Bromochloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ²¹ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹

34 Chromium (III)...

ลำดับ	สารเคมี	วิธีการตรวจ
34	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ²¹ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ²¹
35	Chromium (VI)	1) Colorimetric Method ²¹ 2) Extraction, Air-Acetylene Flame Method ²¹
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
37	Cyanide	Distillation, Colorimetric Method ²¹
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ²¹
39	DDO	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
42	Dibenz[ah]anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹

48 1,1-Dichloroethane...

ลำดับ	สารเคมี	วิธีการตรวจ
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
56	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
63	Di n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹

65 Endrin...

ลำดับ	สารเคมี	วิธีการตรวจ
65	Endrin	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
66	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
73	n-Hexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
74	o-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
75	β-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹

76 γ-HCH...

ลำดับ	สารเคมี	วิธีการตรวจ
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
79	Indeno[1,2,3-cd]pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ²¹
84	Methanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ²¹
86	Methyl bromide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
87	Methylene chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹

91 Naphthalene...

ลำดับ	สารเคมี	วิธีการตรวจ
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
95	N-Nitroso-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
98	pH	Electrometric Method ²¹
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
100	Phenol	1) Distillation, Chloroform Extraction Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹

102 Selenium...

ลำดับ	สารเคมี	วิธีการตรวจ
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²⁴ 2) Digestion, Inductively Coupled Plasma Method ²¹
103	Silver	Digestion, Inductively Coupled Plasma Method ²¹
104	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
107	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
108	Ionaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁴
109	TPH (C ₇ - C ₈)	1) Purge and Trap, Gas Chromatographic Method ^{24,25} 2) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^{24,25}
110	TPH (C ₉ - C ₁₀)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,24}
111	TPH (C ₁₁ - C ₁₃)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,22}
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
115	Trichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁴
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²⁴
118	1,3,3-Trimethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴

119 Vanadium...

ลำดับ	สารเคมี	วิธีการตรวจ
119	Vanadium	Digestion, Inductively Coupled Plasma Method ²¹
120	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
121	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
122	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
123	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
124	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
125	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²⁴
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ²⁴ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²⁴ 3) Digestion, Inductively Coupled Plasma Method ²¹

ข้อมูลจากวิธีปฏิบัติที่ใช้แล้ว จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{1,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
2	Arsimony	Digestion, Inductively Coupled Plasma Method ^{2,22}
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{2,24,25} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{2,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,21}
4	Berilium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 2) Digestion, Inductively Coupled Plasma Method ^{2,21}

5 Beryllium...

ลำดับ	สารเคมี	วิธีการตรวจ
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 2) Digestion, Inductively Coupled Plasma Method ^{2,21,22}
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{2,21,25} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{2,22} 4) Digestion, Inductively Coupled Plasma Method ^{2,22}
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{1,2,21} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{2,22} 4) Digestion, Inductively Coupled Plasma Method ^{2,21,22}
9	Chromium (III)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method Calculation ^{2,2,24,25} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^{2,2,24,25} 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{2,2,24,25} 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{2,2,24,25}
10	Chromium (VI)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method ^{2,2,24,25} 2) Alkaline Digestion, Colorimetric Method ^{2,2,24,25}
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 2) Digestion, Inductively Coupled Plasma Method ^{2,21,22}

12 Copper...

ลำดับ	สารเคมี	วิธีการตรวจ
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{2,21,22} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,21,22} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{2,22} 4) Digestion, Inductively Coupled Plasma Method ^{2,22}
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
14	DOD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}

20 Lead...

ลำดับ	สารเคมี	วิธีวิเคราะห์
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{1,11} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{1,11} 4) Digestion, Inductively Coupled Plasma Method ^{1,12}
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{1,14} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{1,11}
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^{1,18} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^{1,17} 4) Digestion, Inductively Coupled Plasma Method ^{1,12} 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^{1,11}
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{1,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{1,21}
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{1,11} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{1,11} 4) Digestion, Inductively Coupled Plasma Method ^{1,12}

26 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีวิเคราะห์
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5-Trichlorobiphenyl - 2,3,5-Trichlorobiphenyl - 2,2',3,5-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4,6-Pentachlorobiphenyl - 2,2',3,4,4',5-Hexachlorobiphenyl - 2,2',3,3',5,6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,5,6-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{1,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{1,11}

27 Pentachlorophenol...

ลำดับ	สารเคมี	วิธีวิเคราะห์
27	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^{1,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{1,16} Electrometric Method ^{1,21}
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{1,19} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{1,19} 4) Digestion, Inductively Coupled Plasma Method ^{1,12}
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{1,17} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{1,11}
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{1,23} 2) Waste Extraction, Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^{1,11} 3) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{1,11} 4) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^{1,23}
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}

35 Zinc...

ลำดับ	สารเคมี	วิธีวิเคราะห์
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{1,11} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{1,12} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{1,11} 4) Digestion, Inductively Coupled Plasma Method ^{1,12}

เอกสารอ้างอิง

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ดำเนินการถูกต้อง

กลุ่มมาตรฐานวิธีการทดสอบและประเมินผลสิ่งแวดล้อมที่ใช้ปฏิบัติกันทั่วไปในระดับสากลและได้รับการยอมรับโดยหน่วยงานราชการไทย มีผลบังคับใช้เมื่อ ๑๖ มิถุนายน ๒๕๖๑



ที่ ๓๓๐๓๐๑๖/ ๑๖ ๑๕ ๑๕

กรมโรงงานอุตสาหกรรม
กรมการตรวจประเมิน
ตรวจราชการ กรุงเทพมหานคร ๑๐๑๐๐

๑๖ มิถุนายน ๒๕๖๑

เรื่อง เปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้ตรวจการ บริษัท ปูนซิเมนต์ไทย จำกัด (มหาชน) และบริษัทปูนซีเมนต์ไทย จำกัด

อ้างถึง คำขอเปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์และบริษัทปูนซีเมนต์ไทย จำกัด

ตามที่บริษัทปูนซิเมนต์ไทย จำกัด (มหาชน) ขอเปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์และบริษัทปูนซีเมนต์ไทย จำกัด

จำนวน ๖ รายการ ดังนี้

- | | |
|--------------------|----------------------------|
| ๑) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๒) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๓) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๔) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๕) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๖) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |

ขอแจ้งให้ทราบว่าเอกสารของห้องปฏิบัติการวิเคราะห์และบริษัทปูนซีเมนต์ไทย จำกัด

กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

นายประจักษ์ ธรรมรัตน์
ผู้อำนวยการกองวิเคราะห์และประเมินผลสิ่งแวดล้อม
กรมโรงงานอุตสาหกรรม



ดำเนินการถูกต้อง

กลุ่มมาตรฐานวิธีการทดสอบและประเมินผลสิ่งแวดล้อมที่ใช้ปฏิบัติกันในระดับสากลและได้รับการยอมรับโดยหน่วยงานราชการไทย มีผลบังคับใช้เมื่อ ๑๖ มิถุนายน ๒๕๖๑



"อุตสาหกรรมก้าวหน้า ประสิทธิภาพการวิเคราะห์และประเมินผลสิ่งแวดล้อม"



ที่ ๓๓๐๓๐๑๖/ ๑๕ ๑๕ ๑๕

กรมโรงงานอุตสาหกรรม
กรมการตรวจประเมิน
ตรวจราชการ กรุงเทพมหานคร ๑๐๑๐๐

๑๕ มิถุนายน ๒๕๖๑

เรื่อง เปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้ตรวจการ บริษัท ปูนซิเมนต์ไทย จำกัด (มหาชน) และบริษัทปูนซีเมนต์ไทย จำกัด

อ้างถึง คำขอเปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์และบริษัทปูนซีเมนต์ไทย จำกัด

ตามที่บริษัทปูนซิเมนต์ไทย จำกัด (มหาชน) ขอเปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์และบริษัทปูนซีเมนต์ไทย จำกัด

จำนวน ๖ รายการ ดังนี้

- | | |
|--------------------|----------------------------|
| ๑) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๒) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๓) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๔) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๕) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๖) มาตราการปฏิบัติ | ระเบียบข้อที่ ๑-๑๕๕-๑-๐๑๕๖ |

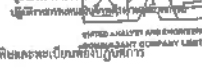
ขอแจ้งให้ทราบว่าเอกสารของห้องปฏิบัติการวิเคราะห์และบริษัทปูนซีเมนต์ไทย จำกัด

กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

นายประจักษ์ ธรรมรัตน์
ผู้อำนวยการกองวิเคราะห์และประเมินผลสิ่งแวดล้อม
กรมโรงงานอุตสาหกรรม



ดำเนินการถูกต้อง

กลุ่มมาตรฐานวิธีการทดสอบและประเมินผลสิ่งแวดล้อมที่ใช้ปฏิบัติกันในระดับสากลและได้รับการยอมรับโดยหน่วยงานราชการไทย มีผลบังคับใช้เมื่อ ๑๖ มิถุนายน ๒๕๖๑



"อุตสาหกรรมก้าวหน้า ประสิทธิภาพการวิเคราะห์และประเมินผลสิ่งแวดล้อม"

“อุตสาหกรรมบริการไทย ปรารถนาได้ก้าวหน้า จำเป็นพัฒนาบุคลากรควบคู่กัน”

- ៣៦) បាវកុលាប្បវត្តៈ.

16 o,p'-DDT₁

36 Oil & Gas

4 Anthracene...1.5 Benzo(e,h)perylene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
15	Benzodibromomethane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁴¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁴²
16	Beryllium	Digestion, Inductively Coupled Plasma Method ⁴³
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁴⁴
18	But(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁴⁵
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁴⁶
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁴⁷
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁴⁸
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁴⁹
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ⁵⁰ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁵¹ 3) Digestion, Inductively Coupled Plasma Method ⁵²
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵³
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁵⁴
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁵⁵
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁵⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵⁷
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵⁸
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁵⁹

30 Chlorodibromomethane...

ลำดับ	สารเคมี	วิธีวิเคราะห์
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶⁰
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶¹
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁶²
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ⁶³ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁶⁴ 3) Digestion, Inductively Coupled Plasma Method ⁶⁵
34	Chromium (II)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ⁶⁶ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ⁶⁷
35	Chromium (VI)	1) Colorimetric Method ⁶⁸ 2) Extraction, Air-Acetylene Flame Method ⁶⁹
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁷⁰ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷¹
37	Cyanide	Distillation, Colorimetric Method ⁷²
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ⁷³
39	DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁷⁴ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷⁵
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁷⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷⁷
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁷⁸ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷⁹

42 Dibenz(a,h)anthracene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
42	Dibenz(a,h)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁸⁰ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸¹
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸²
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸³
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸⁴
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸⁵
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸⁶
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸⁷
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸⁸
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸⁹
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁹⁰
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁹¹
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹²
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁹³
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁹⁴
56	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁹⁵
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁹⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹⁷

58 Diethyl phthalate...

ลำดับ	สารเคมี	วิธีวิเคราะห์
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹⁸
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹⁹
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁰⁰
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁰¹
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁰²
63	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁰³
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁰⁴ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁰⁵
65	Erofin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁰⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁰⁷
66	Ethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁰⁸
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁰⁹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹¹⁰
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹¹¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹¹²
69	1,4-Dichlorobenzene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹¹³ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹¹⁴

70 Heptachlor epoxide...

ลำดับ	สารเคมี	วิธีการตรวจ
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
73	n-Hexane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
74	α-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
75	β-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
79	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ⁽¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽²⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽³⁾

82 Manganese...

ลำดับ	สารเคมี	วิธีการตรวจ
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ⁽¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽²⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽³⁾
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽¹⁾
84	Methanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾
86	Methyl bromide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
87	Methylene chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ⁽¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽²⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽³⁾
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
95	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾

96 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการตรวจ
96	Polychlorinated Biphenyls • PCB-1016 • PCB-1221 • PCB-1252 • PCB-1262 • PCB-1298 • PCB-1254 • PCB-1269	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
98	pH	Spectrometric Method ⁽¹⁾
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
100	Phenol	1) Distillation, Chloroform Extraction Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽¹⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽²⁾
103	Silver	Digestion, Inductively Coupled Plasma Method ⁽¹⁾
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾

108 Toxaphene...

ลำดับ	สารเคมี	วิธีการตรวจ
108	Toxaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
109	TPH (C ₉ - C ₆)	1) Purge and Trap, Gas Chromatographic Method ⁽¹⁾⁽²⁾ 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾
110	TPH (C ₁₀ - C ₁₆)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾
111	TPH (C ₁₇ - C ₂₅)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
115	Trichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
118	1,3,5-Trimeethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
119	Vanadium	Digestion, Inductively Coupled Plasma Method ⁽¹⁾
120	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
121	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
122	m-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
123	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾

124 p-Xylene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
124	p-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²⁴
125	Xylene (Total)	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²⁵
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ⁴¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁴² 3) Digestion, Inductively Coupled Plasma Method ⁴³

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ลำดับ	สารเคมี	วิธีวิเคราะห์
1	Antimony	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁴⁴
2	Arsenic	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁴⁵ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁴⁶
3	Cadmium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁴⁷ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁴⁸
4	Carbon Monoxide	Instrumental Analyzer Method ⁴⁹
5	Chlorine	Isokinetic Sampling, Ion Chromatographic Method ⁵⁰
6	Chromium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁵¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁵²
7	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁵³
8	Copper	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁵⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁵⁵
9	Cresol	Absorption Sampling, Gas Chromatographic/Mass Spectrometric Method ⁵⁶

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10 Dioxins/Furans...

ลำดับ	สารเคมี	วิธีวิเคราะห์
10	Dioxins/Furans	Isokinetic Sampling ⁵⁷
11	Hydrogen Chloride	Isokinetic Sampling, Ion Chromatographic Method ⁵⁸
12	Hydrogen Fluoride	Isokinetic Sampling, Ion Chromatographic Method ⁵⁹
13	Hydrogen Sulfide	Absorption Sampling, Iodometric Method ⁶⁰
14	Lead	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁶¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁶²
15	Manganese	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁶³ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁶⁴
16	Mercury	Isokinetic Sampling, Digestion, Cold-vapor Atomic Absorption Spectrometric Method ⁶⁵
17	Nickel	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ⁶⁶ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁶⁷
18	Opacity	Ringelmann's Method ⁶⁸
19	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method ⁶⁹ 2) Instrumental Analyzer Method ⁷⁰
20	Selenium	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁷¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁷²
21	Sulfur Dioxide	1) Absorption Sampling, Barium-Thioin Turbimetric Method ⁷³ 2) Instrumental Analyzer Method ⁷⁴
22	Sulfuric Acid	Isokinetic Sampling, Barium-Thioin Turbimetric Method ⁷⁵
23	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ⁷⁶
24	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ⁷⁷
25	Xylene	1) Isokinetic Sampling, Gas Chromatographic/Mass Spectrometric Method ⁷⁸ 2) Absorption Sampling, Gas Chromatographic Method ⁷⁹

สี่ปีถัดไป...

เพิ่มข้อมูลวิธีวิเคราะห์ใหม่จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{80,81} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{82,83}
2	Antimony	Digestion, Inductively Coupled Plasma Method ⁸⁴
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{85,86} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{87,88} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{89,90} 4) Digestion, Inductively Coupled Plasma Method ^{91,92}
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{93,94} 2) Digestion, Inductively Coupled Plasma Method ^{95,96}
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{97,98} 2) Digestion, Inductively Coupled Plasma Method ^{99,100}
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{101,102} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{103,104} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{105,106} 4) Digestion, Inductively Coupled Plasma Method ^{107,108}
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{109,110} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{111,112}
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{113,114} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{115,116}

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3) Digestion...

ลำดับ	สารเคมี	วิธีวิเคราะห์
9	Chromium (III)	3) Digestion, Flame Atomic Absorption Spectrometric Method ^{117,118} 4) Digestion, Inductively Coupled Plasma Method ^{119,120} 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^{121,122,123} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^{124,125,126} 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{127,128,129} 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{130,131,132}
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method ^{133,134} 2) Alkaline Digestion, Colorimetric Method ^{135,136}
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{137,138} 2) Digestion, Inductively Coupled Plasma Method ^{139,140}
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{141,142} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{143,144} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{145,146}
13	2,4-D	4) Digestion, Inductively Coupled Plasma Method ^{147,148} 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{149,150} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{151,152}
14	DDD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{153,154} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{155,156}

15 DDE...

ลำดับ	สารเคมี	วิธีวิเคราะห์
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(2,14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(2,14) 4) Digestion, Inductively Coupled Plasma Method ^(2,15)
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(2,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15)

3) Digestion,...

ลำดับ	สารเคมี	วิธีวิเคราะห์
23	Methoxychlor	3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(2,17) 4) Digestion, Inductively Coupled Plasma Method ^(2,15) 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^(2,18)
24	Molybdenum	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
25	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 2) Digestion, Inductively Coupled Plasma Method ^(2,15) 3) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(2,14) 4) Digestion, Inductively Coupled Plasma Method ^(2,15)
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',3,4-Tetrachlorobiphenyl - 2,2',3,5-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5-Pentachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23) 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(2,17) 4) Digestion, Inductively Coupled Plasma Method ^(2,15) 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^(2,18)



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- 2,2',3,4,5-

ลำดับ	สารเคมี	วิธีวิเคราะห์
27	- 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4,4',5'-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6'-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5',6'-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6'-Monachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(2,23) 3) Digestion, Inductively Coupled Plasma Method ^(2,4,15) 4) Digestion, Inductively Coupled Plasma Method ^(2,15)
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(2,17) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 3) Digestion, Inductively Coupled Plasma Method ^(2,15) 4) Digestion, Inductively Coupled Plasma Method ^(2,15)

39 Silver...

ลำดับ	สารเคมี	วิธีวิเคราะห์
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 2) Digestion, Inductively Coupled Plasma Method ^(2,15)
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 2) Digestion, Inductively Coupled Plasma Method ^(2,15)
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(2,22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23)
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(2,22) 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(2,23)
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 2) Digestion, Inductively Coupled Plasma Method ^(2,15)
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(2,14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(2,4,15) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(2,14) 4) Digestion, Inductively Coupled Plasma Method ^(2,15)

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ลำดับ	สารเคมี	วิธีวิเคราะห์
1	Acenaphthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(2,23) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(2,24)
2	Acetone	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(2,25)

3 Aldrin...

ลำดับ	สารเคมี	วิธีวิเคราะห์
3	Aldrin	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽⁴⁾
4	Anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
5	Arsimony	Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽³⁾
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽¹⁾⁽³⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽³⁾⁽⁴⁾
7	Atrazine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
8	Barium	Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽²⁾
9	Benzalanthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾
10	Benzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽⁴⁾
11	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾
12	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾
13	Benzoic acid	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾
14	Benzo(a)pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾

15 Benzo(g,h,i)perylene.

ลำดับ	สารเคมี	วิธีวิเคราะห์
13	Benzo(g,h,i)perylene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
16	Beryllium	Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽³⁾
17	Bis(2-chloroethyl)ether	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
18	Bis(2-ethylhexyl)phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
20	Bromoform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
21	Butanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
22	Buryl benzoate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
23	Calcium	1) Digestion, Flame Atomic Absorption Spectrometric Method ⁽¹⁾⁽³⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽³⁾⁽⁴⁾
24	Carbazole	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
27	Chlordane	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾
28	p-Chloroaniline	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾

31 Chloroform.

ลำดับ	สารเคมี	วิธีวิเคราะห์
31	Chloroform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
33	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method ⁽¹⁾⁽³⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁾⁽³⁾⁽⁴⁾
34	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ⁽¹⁾⁽³⁾⁽⁴⁾⁽⁵⁾ 2) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ⁽¹⁾⁽³⁾⁽⁴⁾⁽⁵⁾
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method ⁽¹⁾⁽³⁾
36	Cresol	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
37	Cyanide	Extraction, Distillation, Colorimetric Method ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾
38	2,4-D	Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽³⁾
39	DDD	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
40	DCE	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
41	DDT	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
42	Dibenz(a,h)anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽⁴⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽³⁾⁽⁴⁾

43 Di-n-butyl phthalate..

ลำดับ	สารเคมี	วิธีวิเคราะห์
43	Di-n-butyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
47	3,3'-Dichlorobenzidine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
48	1,1-Dichloroethene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
49	1,2-Dichloroethene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
57	Dieldrin	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
58	Diethyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾
59	2,4-Dimethylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾⁽²⁾⁽³⁾

60 2,4-Dinitrophenol..

ลำดับ	สารเคมี	วิธีวิเคราะห์
97	2,2',3,4',5,5',6'-Hepachlorobiphenyl	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,20}
98	2,2',3,3',4,4',5,5',6'-Hexachlorobiphenyl	1) Ultrasonic Extraction, Gas Chromatographic Method ^{14,21} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,22}
99	Phenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,23}
100	Pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{14,25}
101	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{17,26} 2) Digestion, Inductively Coupled Plasma Method ^{17,27}
102	Silver	Digestion, Inductively Coupled Plasma Method ^{17,28}
103	Styrene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,29}
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{14,30}
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,31}
106	Triclore	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,32}
107	Trichloroethene	Ultrasonic Extraction, Gas Chromatographic Method ^{16,33}
108	Trifluoromethane (C ₂ F ₃)	1) Purge and Trap, Gas Chromatographic Method ^{14,34} 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{16,35}
109	TPH (C ₁₀ -C ₁₆)	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,36}
110	TPH (C ₁₇ -C ₂₈)	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,37}
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,38}

112 1,1,1-Trichloroethane...

ลำดับ	สารเคมี	วิธีวิเคราะห์
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,39}
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,40}
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,41}
115	2,4,5-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,42}
116	2,4,6-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,43}
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,44}
118	Vanadium	Digestion, Inductively Coupled Plasma Method ^{17,45}
119	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,46}
120	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{17,47}
121	m-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,48}
122	o-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,49}
123	p-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,50}
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{12,51}
125	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method ^{17,52} 2) Digestion, Inductively Coupled Plasma Method ^{17,53}

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