

ภาคผนวก ฉ
หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน



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

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

ลำดับ	สารเคมี	วิธีการตรวจ
5	Antimony	Digestion, Inductively Coupled Plasma Method ⁽¹⁾
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽¹⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁾
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
8	Barium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽¹⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁾
9	Benz(a)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
10	Benzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
11	Benzo(a)fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
12	Benzo(k)fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
14	Benzo(a)pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
15	Benzo(g,h,i)perylene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
16	Beryllium	Digestion, Inductively Coupled Plasma Method ⁽¹⁾
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁾

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

36 Chromium (III)

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

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ลำดับ	สารเคมี	วิธีการตรวจ
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
56	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
63	Di n Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³

ลำดับ	สารเคมี	วิธีการตรวจ
65	Endrin	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
66	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
73	n-Hexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
74	o,p'-DDE	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
75	o,p'-DDD	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³

76 γ-HCH...

ลำดับ	สารเคมี	วิธีการตรวจ
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
79	Indeno[1,2,3-cd]pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ²³ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²³ 3) Digestion, Inductively Coupled Plasma Method ²³
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ²³ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²³ 3) Digestion, Inductively Coupled Plasma Method ²³
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ²³
84	Methanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
86	Methyl bromide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
87	Methylene chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²³

ลำดับ	สารเคมี	วิธีการตรวจ
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ²³ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²³ 3) Digestion, Inductively Coupled Plasma Method ²³
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
95	N-Nitrosodipropylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
98	pH	Electrometric Method ²³
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
100	Phenol	1) Distillation, Chloroform Extraction Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²³

102 Selenium...

91 Naphthalene...

ลำดับ	สารเคมี	วิธีการตรวจ
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ³⁵ 2) Digestion, Inductively Coupled Plasma Method ³⁶
103	Silver	Digestion, Inductively Coupled Plasma Method ³⁷
104	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ³⁸
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ³⁹
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁴⁰
107	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁴¹
108	Triaphane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁴² 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁴³
109	TPH (C ₁₀ - C ₆)	1) Purge and Trap, Gas Chromatographic Method ^{44,45} 2) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^{46,47}
110	TPH (C ₁₀ - C ₁₂)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{48,49}
111	TPH (C ₁₃ - C ₁₅)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{50,51}
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁵²
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁵³
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁵⁴
115	Trichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁵⁵
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^{56,57}
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^{58,59}
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶⁰

119 Vanadium...

ลำดับ	สารเคมี	วิธีการตรวจ
119	Vanadium	Digestion, Inductively Coupled Plasma Method ⁶¹
120	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶²
121	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶³
122	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶⁴
123	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶⁵
124	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶⁶
125	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁶⁷
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ⁶⁸ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁶⁹ 3) Digestion, Inductively Coupled Plasma Method ⁷⁰

สารเคมีที่ตรวจในภาค 35 ของมาตรฐาน

ลำดับ	สารเคมี	วิธีการตรวจ
1	Aluminum	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{71,72} 2) Ultrasonic Extraction, Gas Chromatographic Method ⁷³
2	Antimony	Digestion, Inductively Coupled Plasma Method ⁷⁴
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{75,76} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{77,78} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁷⁹ 4) Digestion, Inductively Coupled Plasma Method ⁸⁰
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ⁸¹ 2) Digestion, Inductively Coupled Plasma Method ⁸²

5 Beryllium...

ลำดับ	สารเคมี	วิธีการตรวจ
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{83,84} 2) Digestion, Inductively Coupled Plasma Method ^{85,86}
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{87,88} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{89,90} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{91,92} 4) Digestion, Inductively Coupled Plasma Method ^{93,94}
7	Chloroform	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{95,96} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{97,98}
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{99,100} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{101,102} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{103,104} 4) Digestion, Inductively Coupled Plasma Method ^{105,106}
9	Chromium (III)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^{107,108} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method, Calculation ^{109,110} 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{111,112} 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{113,114}
10	Chromium (VI)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{115,116} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{117,118}
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{119,120} 2) Digestion, Inductively Coupled Plasma Method ^{121,122}

12 Copper...

ลำดับ	สารเคมี	วิธีการตรวจ
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{123,124} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{125,126} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{127,128} 4) Digestion, Inductively Coupled Plasma Method ^{129,130}
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{131,132} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{133,134}
14	DDO	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{135,136} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{137,138}
15	DDI	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{139,140} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{141,142}
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{143,144} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{145,146}
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{147,148} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{149,150}
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{151,152} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{153,154}
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{155,156} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{157,158}

ลำดับ	สารเคมี	วิธีการตรวจ
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.12) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(1.12) 4) Digestion, Inductively Coupled Plasma Method ^(1.11)
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.22)
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1.19) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1.19) 4) Digestion, Inductively Coupled Plasma Method ^(1.11) 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^(1.18)
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.22)
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 2) Digestion, Inductively Coupled Plasma Method ^(1.11)
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.12) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(1.12) 4) Digestion, Inductively Coupled Plasma Method ^(1.11)

26 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการตรวจ
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'-Trichlorobiphenyl - 2,4,5-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',3,5'-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',3,4,5,5'-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',5,6'-Heptachlorobiphenyl - 2,2',3,4',5,5',6'-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6'-Monachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.22)

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ลำดับ	สารเคมี	วิธีการตรวจ
27	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1.22) Electrometric Method ^(1.23)
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(1.18) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(1.18) 4) Digestion, Inductively Coupled Plasma Method ^(1.11)
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 2) Digestion, Inductively Coupled Plasma Method ^(1.11)
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 2) Digestion, Inductively Coupled Plasma Method ^(1.11)
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.22)
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1.21) 2) Waste Extraction, Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(1.22) 3) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1.21) 4) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(1.22)
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 2) Digestion, Inductively Coupled Plasma Method ^(1.11)

ลำดับ	สารเคมี	วิธีการตรวจ
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.12) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.11) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(1.12) 4) Digestion, Inductively Coupled Plasma Method ^(1.11)

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ผู้ตรวจการแผ่นดินฯ ขอแจ้งให้ทราบถึงผลการพิจารณาเรื่องร้องเรียนที่รับแจ้งเมื่อวันที่ ๑๖ กรกฎาคม ๒๕๖๓ เรื่อง...

ที่ ๑๓ ๐๒๐๔(๓) / ๑๖ ๕ ๑ ๕



กรมโรงงานอุตสาหกรรม
เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕
กระทรวงมหาดไทย

๑๓ ธันวาคม ๒๕๖๓

เรื่อง เปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) ขอแจ้งให้ทราบว่า

อ้างถึง คำขอเปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์ของ บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) ลงวันที่ ๑๖ กรกฎาคม ๒๕๖๓

ตามที่บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

กรมโรงงานอุตสาหกรรม ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

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|---------------------------|----------------------------|
| ๑) นางสาวพรทิพย์ ประจักษ์ | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๒) นายวิวัฒน์ บุญยชัย | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๓) นางสาววิภาดา ภาณุภา | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๕ |
| ๔) นายปณิทัต สุทธิ | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๕ |
| ๕) นายสิทธิชัย ทรัพย์ชัย | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๖) นางสาวนันทิยา การงาน | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๕ |

ทั้งนี้ เพื่อให้เป็นไปตามข้อกำหนดของกรมโรงงานอุตสาหกรรม ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประจักษ์ ทรัพย์ชัย)

ผู้ตรวจการแผ่นดินฯ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕



กองวิจัยและพัฒนาสิ่งแวดล้อมโรงงาน

กลุ่มงานบริหารวิศวกรรมสิ่งแวดล้อมและระบบบำบัดน้ำเสีย

โทร. ๐ ๒๕๖๓ ๖๓๖๓ ต่อ ๒๕๖๓-๕

โทรสาร ๐ ๒๕๖๓ ๖๓๖๓ ต่อ ๒๕๖๓-๕

ไปรษณีย์อิเล็กทรอนิกส์ sarabong@dw.mha.go.th



"อุตสาหกรรมก้าวหน้า ประสิทธิภาพสูง ร่วมกันพัฒนาอุตสาหกรรมไทย"



ที่ ๑๓ ๐๒๐๔(๓) / ๑๖ ๕ ๑ ๕



กรมโรงงานอุตสาหกรรม
เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕
กระทรวงมหาดไทย

๑๕ พฤษภาคม ๒๕๖๓

เรื่อง เปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) ขอแจ้งให้ทราบว่า

อ้างถึง คำขอเปลี่ยนแปลงเอกสารของห้องปฏิบัติการวิเคราะห์ของ บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) ลงวันที่ ๑๖ กรกฎาคม ๒๕๖๓

ตามที่บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

กรมโรงงานอุตสาหกรรม ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

๑. ให้ยกเลิกอำนาจหน้าที่ของห้องปฏิบัติการวิเคราะห์ จำนวน ๕ ราย

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| ๑) นางสาววิภาดา ภาณุภา | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๒) นายวิวัฒน์ บุญยชัย | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๓) นางสาวพรทิพย์ ประจักษ์ | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๔) นางสาวนันทิยา การงาน | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๕) นางสาววิภาดา ภาณุภา | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |

๒. ให้เพิ่มอำนาจหน้าที่ของห้องปฏิบัติการวิเคราะห์ จำนวน ๔ ราย

- | | |
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| ๑) นางสาววิภาดา ภาณุภา | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๒) นางสาวนันทิยา การงาน | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๓) นางสาวพรทิพย์ ประจักษ์ | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |
| ๔) นางสาววิภาดา ภาณุภา | ทะเบียนเลขที่ ๑-๑๕๕-๑-๐๑๕๖ |

ทั้งนี้ เพื่อให้เป็นไปตามข้อกำหนดของกรมโรงงานอุตสาหกรรม ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประจักษ์ ทรัพย์ชัย)

ผู้ตรวจการแผ่นดินฯ ขอแจ้งให้ทราบว่า บริษัท ยูนิแมค แอมโมเนีย จำกัด (มหาชน) เลขที่ ๑๖ ๕ ๑ ๕ ๑ ๕

กองวิจัยและพัฒนาสิ่งแวดล้อมโรงงาน

กลุ่มงานบริหารวิศวกรรมสิ่งแวดล้อมและระบบบำบัดน้ำเสีย

โทร. ๐ ๒๕๖๓ ๖๓๖๓ ต่อ ๒๕๖๓-๕

โทรสาร ๐ ๒๕๖๓ ๖๓๖๓ ต่อ ๒๕๖๓-๕

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"อุตสาหกรรมก้าวหน้า ประสิทธิภาพสูง ร่วมกันพัฒนาอุตสาหกรรมไทย"

"อุตสาหกรรมก้าวหน้า ประสิทธิภาพสูง ร่วมกันพัฒนาอุตสาหกรรมไทย"

ลำดับ	สารเคมี	วิธีการตรวจ
15	Benzocyclopentadiene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²²
16	Beryllium	Digestion, Inductively Coupled Plasma Method ²³
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²⁴
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²⁵
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²⁶
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²⁷
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²⁸
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²⁹
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ³⁰ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ³¹ 3) Digestion, Inductively Coupled Plasma Method ³²
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ³³
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ³⁴
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ³⁵
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ³⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ³⁷
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ³⁸
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ³⁹

30 Chlorodibromomethane...

ลำดับ	สารเคมี	วิธีการตรวจ
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁴⁰
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁴¹
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁴²
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ⁴³ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁴⁴ 3) Digestion, Inductively Coupled Plasma Method ⁴⁵
34	Chromium (II)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ⁴⁶ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ⁴⁷
35	Chromium (VI)	1) Colorimetric Method ⁴⁸ 2) Extraction, Air-Acetylene Flame Method ⁴⁹
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁵⁰ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵¹
37	Cyanide	Distillation, Colorimetric Method ⁵²
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ⁵³
39	DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁵⁴ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵⁵
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁵⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵⁷
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁵⁸ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁵⁹

42 Dibenz(a,h)anthracene...

ลำดับ	สารเคมี	วิธีการตรวจ
42	Dibenz(a,h)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁶⁰ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁶¹
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁶²
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶³
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶⁴
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶⁵
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁶⁶
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶⁷
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶⁸
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁶⁹
51	cis-1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁷⁰
52	trans-1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁷¹
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷²
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁷³
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁷⁴
56	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁷⁵
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁷⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷⁷

58 Diethyl phthalate...

ลำดับ	สารเคมี	วิธีการตรวจ
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷⁸
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁷⁹
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸⁰
61	2,4-Dinitrochlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸¹
62	2,6-Dinitrochlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸²
63	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸³
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁸⁴ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸⁵
65	Ercin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁸⁶ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁸⁷
66	Ethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁸⁸
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁸⁹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹⁰
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁹¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹²
69	Haptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁹³ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁹⁴

70 Heptachlor epoxide...

ลำดับ	สารเคมี	วิธีการตรวจ
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
73	n-Hexane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
74	α-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
75	β-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
79	Indanol(1,2,3 oxydrene)	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
80	Isophorane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Spectrometric Method ⁽⁵⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁶⁾

82 Manganese...

ลำดับ	สารเคมี	วิธีการตรวจ
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁵⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁶⁾
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽⁶⁾
84	Methanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾
86	Methyl bromide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
87	Methylene chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁵⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁶⁾
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
95	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾

96 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการตรวจ
96	Polychlorinated Biphenyls • PCB-1016 • PCB-1221 • PCB-1232 • PCB-1262 • PCB-1268 • PCB-1254 • PCB-1260	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
98	pH	Electrometric Method ⁽⁴⁾
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
100	Phenol	1) Distillation, Chloroform Extraction Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁵⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁶⁾
103	Silver	Digestion, Inductively Coupled Plasma Method ⁽⁶⁾
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁾

108 Toluene...

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

124 p-Xylene...

ลำดับ	สารเคมี	วิธีการตรวจ
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 ¹⁴ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ¹⁵ 3) Digestion, Inductively Coupled Plasma Method ¹⁴

ข้อมูลวิธี (ข้อมูลวิธี) จำนวน 25 วิธีตรวจ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Arsenite	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
2	Arsenic	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
3	Cadmium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
4	Carbon Monoxide	Instrumental Analyzer Method ¹¹
5	Chlorine	Isokinetic Sampling, Ion Chromatographic Method ²
6	Chromium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
7	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
8	Copper	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
9	Cresol	Absorption Sampling, Gas Chromatographic/Mass Spectrometric Method ²⁴

13 Dioxin/Furans...

ลำดับ	สารเคมี	วิธีการตรวจ
10	Dioxin/Furans	Isokinetic Sampling ²⁴
11	Hydrogen Chloride	Isokinetic Sampling, Ion Chromatographic Method ²
12	Hydrogen Fluoride	Isokinetic Sampling, Ion Chromatographic Method ²
13	Hydrogen Sulfide	Absorption Sampling, Iodometric Method ¹⁴
14	Lead	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
15	Manganese	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
16	Mercury	Isokinetic Sampling, Digestion, Cold-vapor Atomic Absorption Spectrometric Method ¹⁴
17	Nickel	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
18	Opacity	Ringbom's Method ¹¹
19	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method ²⁴ 2) Instrumental Analyzer Method ¹¹
20	Selenium	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ¹⁴ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
21	Sulfur Dioxide	1) Absorption Sampling, Barium-Thioin Turbidity Method ¹⁴ 2) Instrumental Analyzer Method ¹¹
22	Sulfuric Acid	Isokinetic Sampling, Barium-Thioin Turbidity Method ¹⁴
23	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ¹⁴
24	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ¹⁴
25	Xylene	1) Gas Sampling, Gas Chromatographic/Mass Spectrometric Method ²⁴ 2) Absorption Sampling, Gas Chromatographic/Mass Spectrometric Method ²⁴

ข้อมูลวิธี (ข้อมูลวิธี) จำนวน 25 วิธีตรวจ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{24,29} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{24,29}
2	Arsenite	Digestion, Inductively Coupled Plasma Method ¹⁴
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{14,15}
4	Bismuth	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15} 2) Digestion, Inductively Coupled Plasma Method ^{14,15}
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15}
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15} 2) Digestion, Inductively Coupled Plasma Method ^{14,15} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{14,15}
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{24,29} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{24,29}
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{14,15}

3) Digestion,...

ลำดับ	สารเคมี	วิธีการตรวจ
9	Chromium (III)	3) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{14,15} 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method, Waste Extraction, Colorimetric Method, Calculation ^{24,14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method, Waste Extraction, Colorimetric Method, Calculation ^{24,14,15}
10	Chromium (VI)	3) Digestion, Flame Atomic Absorption Spectrometric Method, Alkaline Digestion, Colorimetric Method, Calculation ^{14,15,14} 4) Digestion, Inductively Coupled Plasma Method, Alkaline Digestion, Colorimetric Method, Calculation ^{14,15,14}
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15}
12	Copper	2) Digestion, Inductively Coupled Plasma Method ^{14,15} 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{14,15} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{14,15}
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{24,29} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{24,29}
14	DDO	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{24,29} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{24,29}

15 DOE...

ลำดับ	สารเคมี	วิธีการตรวจ
15	GDF	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,22,23} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
20	Heptachlor Epoxide	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{2,23,24} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{2,23,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
22	Mercaptopyrene	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^{2,23,24} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24}

3) Digestion, ...

ลำดับ	สารเคมี	วิธีการตรวจ
23	Methoxychlor	3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^{2,23,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,23,24} 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^{2,23,24}
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 2) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{2,23,24} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{2,23,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
26	Poly-chlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',3,5-Tetrachlorobiphenyl - 2,2',3,5-Tetrachlorobiphenyl - 2,2',3,4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}



สำนักงาน

ลำดับ	สารเคมี	วิธีการตรวจ
27	- 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4,6-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',3,3',4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4,5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{2,23,24} 3) Digestion, Inductively Coupled Plasma Method ^{2,23,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{2,23,24} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{2,23,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,23,24}

ลำดับ	สารเคมี	วิธีการตรวจ
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 2) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 2) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,23,24} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{2,23,24} 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{2,23,24}
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 2) Digestion, Inductively Coupled Plasma Method ^{2,23,24}
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{2,23,24} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{2,23,24} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{2,23,24} 4) Digestion, Inductively Coupled Plasma Method ^{2,23,24}

สิ้น จำนวน 125 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Acenaphthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,22}
2	Acetone	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{2,23,24} Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{2,23,24}

30 Silver...

3 Aldrin...

ลำดับ	สารเคมี	วิธีวิเคราะห์
3	Aldrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
4	Anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,24}
5	Antimony	Digestion, Inductively Coupled Plasma Method ^{1,12}
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{12,24}
7	Atrazine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
8	Bdium	Digestion, Inductively Coupled Plasma Method ^{1,12}
9	Benz[a]anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
10	Benzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,24}
11	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
12	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
13	Benzoic acid	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
14	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}

15 Benzofluoranthene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
15	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
16	Beryllium	Digestion, Inductively Coupled Plasma Method ^{1,12}
17	Bis(2-chloroethyl)ether	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
18	Bis(2-ethylhexyl)phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
19	Bromochloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
20	Bromoforn	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
21	Butanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
22	Butyl benzyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
23	Calcium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}
24	Carbazole	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
27	Chlordane	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}
28	p-Chloroaniline	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
30	Chlorobromomethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}

31 Chloroform...

ลำดับ	สารเคมี	วิธีวิเคราะห์
31	Chloroform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
33	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}
34	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method ^{1,12} 2) Digestion, Inductively Coupled Plasma Method ^{1,12}
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^{1,12}
36	Cyanide	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
37	Cyanide	Extraction, Distillation, Colorimetric Method ^{1,12}
38	2,4-D	Ultrasonic Extraction, Gas Chromatographic Method ^{11,12}
39	DDD	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
40	DDE	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
41	DDT	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
42	Dibenz[a,h]anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{12,24}

43 Di-n-butyl phthalate...

ลำดับ	สารเคมี	วิธีวิเคราะห์
43	Di-n-butyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
47	2,3-Dichlorobenzidine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
57	Endrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^{11,12} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
58	Diethyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}
59	2,4-Dimethylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{11,12}

60 2,4-Dichlorophenol...

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83 Mercury...

Method

83 Mercury...

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ลำดับ	สารเคมี	วิธีการตรวจ
97	2,3,4,5,6-Hopachlorobiphenyl 2,2,3,3,4,4,5,5,6-Nonachlorobiphenyl Pentachlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
98	Phenanthrene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽²²⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
99	Phenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
100	Pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽²²⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
101	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽²²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽²²⁾
102	Silver	Digestion, Inductively Coupled Plasma Method ⁽²²⁾
103	Styrene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
105	Tetrachloromethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
106	Toluene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
107	Tricashone	Ultrasonic Extraction, Gas Chromatographic Method ⁽²²⁾
108	Tri-C (C ₁ -C ₃)	1) Purge and Trap, Gas Chromatographic Method ⁽²²⁾ 2) Purge and Trap, Gas Chromatographic Method ⁽²²⁾
109	TPH (C ₁₀ -C ₁₂)	Ultrasonic Extraction, Gas Chromatographic Method ⁽²²⁾
110	TPH (C ₁₃ -C ₁₅)	Ultrasonic Extraction, Gas Chromatographic Method ⁽²²⁾
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾

112 1,1,1-Trichloroethane.

ลำดับ	สารเคมี	วิธีการตรวจ
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
115	2,4,5-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
116	2,4,6-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
117	1,3,5-Tri-methylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
118	Vanadium	Digestion, Inductively Coupled Plasma Method ⁽²²⁾
119	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
120	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
121	m-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
122	o-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
123	p-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
125	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method ⁽²²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽²²⁾

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