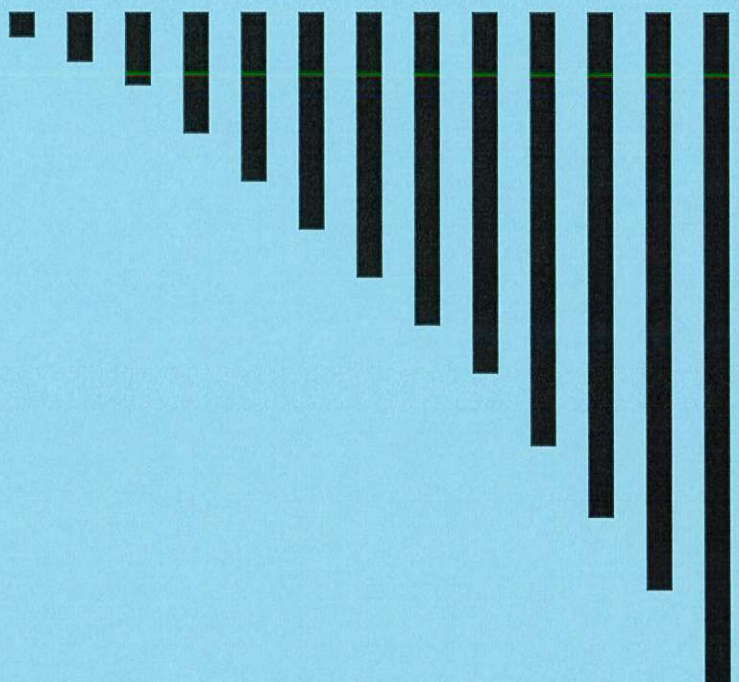


ภาคผนวก ค

- สำเนาหนังสือรับรองการขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอสจีเอส (ประเทศไทย) จำกัด
 - สำเนาเอกสารรับรองมาตรฐาน ISO/IEC 17025 : 2005
- สำเนาเอกสารรับรองระบบงานหน่วยตรวจ ISO/IEC 17020 : 2012
สำเนาเอกสารรับรองมาตรฐาน ISO 9001 : 2015





ที่ อก ๐๓๒๐/๑๖๐๔๑

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๑ พฤศจิกายน ๒๕๖๕

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง)

อ้างถึง คำขอต่ออายุของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๒ กันยายน ๒๕๖๕

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง) จำนวน ๒๒ แผ่น

ตามหนังสือที่อ้างถึง บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง) ขอต่ออายุหนังสือ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๑๙๗ สถานที่ตั้งเลขที่ ๑/๒๐๙ และ ๑/๒๑๑ หมู่ที่ ๑
ตำบลบ้านฉาง อำเภอบ้านฉาง จังหวัดระยอง ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง)
ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์



๑๓) นายเฉลิมวุฒิ...

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ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย จำนวน ๔๔ รายการ
น้ำใต้ดิน จำนวน ๑๒๓ รายการ อากาศเสีย (ปล่องระบาย) จำนวน ๒๘ รายการ สิ่งปฏิภณหรือวัสดุที่ไม่ใช้แล้ว
จำนวน ๓๗ รายการ และดิน จำนวน ๑๒๓ รายการ รวมทั้งสิ้นจำนวน ๓๕๕ รายการ ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้จะหมดอายุในวันที่ ๑๒ ตุลาคม ๒๕๖๘ หากประสงค์จะต่ออายุหนังสือ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงาน
อุตสาหกรรมภายใน ๓๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ซึ่งคำขอ
ต่ออายุดังกล่าวขอรับได้ที่กรมโรงงานอุตสาหกรรม ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้า
เว็บไซต์กรมโรงงานอุตสาหกรรม ตาม QR Code ท้ายหนังสือนี้

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



ผู้อำนวยการศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก

โทร. ๐ ๓๓๑๓ ๖๐๕๙ ต่อ ๕๐๐๑-๒

ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th



ยื่นคำขอผ่านระบบอิเล็กทรอนิกส์



"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"



เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง) เลขทะเบียน ว-๑๙๗

ที่ อก ๐๓๒๐/๑๖๐๔๑

ลงวันที่ ๑ พฤศจิกายน ๒๕๖๕

ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๕๕ รายการ

น้ำเสีย จำนวน 44 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
2	Arsenic	Digestion, Inductively Coupled Plasma Method ^[4]
3	Barium	Digestion, Inductively Coupled Plasma Method ^[4]
4	α-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
5	β-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
6	δ-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
7	γ-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
8	Biochemical Oxygen Demand	5-Day BOD Test, Membrane Electrode Method ^[4]
9	Cadmium	Digestion, Inductively Coupled Plasma Method ^[4]
10	Chemical Oxygen Demand	Closed Reflux, Titrimetric Method ^[4]
11	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
12	Color	ADMI Weighted – Ordinate Spectrophotometric Method ^[4]
13	Copper	Digestion, Inductively Coupled Plasma Method ^[4]
14	Cyanide	Distillation, Colorimetric Method ^[4]
15	p,p'-DDD	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
16	p,p'-DDE	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
17	o,p'-DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
18	p,p'-DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
19	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
20	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
21	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
22	Endosulfan Sulfate	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
23	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
24	Endrin Aldehyde	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
25	Formaldehyde	Distillation, Colorimetric Method ^[3]
26	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
27	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
28	Hexavalent Chromium	Filtration, Colorimetric Method ^[4]
29	Lead	Digestion, Inductively Coupled Plasma Method ^[4]
30	Manganese	Digestion, Inductively Coupled Plasma Method ^[4]
31	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[4]
32	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
33	Nickle	Digestion, Inductively Coupled Plasma Method ^[4]
34	Oil and Grease	Liquid-Liquid, Partition-Gravimetric Method ^[4]
35	pH	Electrometric Method ^[4]
36	Phenols	Distillation, Direct Photometric Method ^[4]
37	Selenium	Digestion, Inductively Coupled Plasma Method ^[4]
38	Temperature	Field Method ^[4]
39	Total Chromium	Digestion, Inductively Coupled Plasma Method ^[4]
40	Total Dissolved Solids	Dried at 180 °C ^[4]
41	Total Kjeldahl Nitrogen	Digestion, Distillation, Titrimetric Method ^[4]
42	Total Suspended Solids	Dried at 103-105 °C ^[4]
43	Trivalent Chromium	Digestion, Inductively Coupled Plasma Method; Filtration, Colorimetric Method, Calculation ^[4]
44	Zinc	Digestion, Inductively Coupled Plasma Method ^[4]

น้ำใต้ดิน จำนวน 123 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
2	Acetone	Purge and Trap Gas Chromatographic / Mass Spectrometric Method ^[4]
3	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
5	Antimony	Digestion, Inductively Coupled Plasma Method ^[4]
6	Arsenic	Digestion, Inductively Coupled Plasma Method ^[4]
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
8	Barium	Digestion, Inductively Coupled Plasma Method ^[4]
9	Benzene	Purge and Trap Gas Chromatographic / Mass Spectrometric Method ^[4]
10	Benzo(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
11	Benzo(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
12	Benzo(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
16	Beryllium	Digestion, Inductively Coupled Plasma Method ^[4]
17	Bis(2 chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
18	Bis(2-Ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
19	Bromodichloromethane	Purge and Trap Gas Chromatographic / Mass Spectrometric Method ^[4]
20	Bromoform	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]

21 Butyl...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
21	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
22	Cadmium	Digestion, Inductively Coupled Plasma Method ^[4]
23	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
24	Carbon disulfide	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
25	Carbon tetrachloride	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
26	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
27	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
28	Chlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
29	Chlorodibromomethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
30	Chloroform	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
31	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
32	Chromium	Digestion, Inductively Coupled Plasma Method ^[4]
33	Chromium Hexavalent	Filtration, Colorimetric Method ^[4]
34	Chromium Trivalent	Digestion, Inductively Coupled Plasma Method ; Filtration, Colorimetric Method; Calculation ^[4]
35	Chrysene	Liquid Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
36	Cyanide	Distillation, Colorimetric Method
37	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
38	DDD	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
39	DDE	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
40	DTT	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]

41 Dibenz...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
41	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
42	Di-n-Butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
43	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
44	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
45	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
46	3,3-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
47	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
48	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
49	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
50	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
51	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
52	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
53	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
54	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
55	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
56	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
57	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
58	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾

9 2,4-Dinitrophenol...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
59	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
60	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
61	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
62	Di-n-octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
63	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
64	Endrin	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
65	Ethylbenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
66	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
67	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
68	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
69	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
70	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
71	Hexachloro-1,3-butadiene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
72	α-HCH	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
73	β-HCH	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
74	γ-HCH	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
75	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾
76	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ⁽⁴⁾

77 n-Hexane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
77	n-Hexane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method
78	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
79	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
80	Lead	Digestion, Inductively Coupled Plasma Method ^[4]
81	Manganese	Digestion, Inductively Coupled Plasma Method ^[4]
82	Mercury	Digestion, Cold Vapor Atomic Absorption Spectrometric Method ^[4]
83	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
84	Methyl Bromide	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
85	Methylene Chloride	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
86	2-Methylnaphthalene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
87	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
88	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
89	Naphthalene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
90	Nickel	Digestion, Inductively Coupled Plasma Method ^[4]
91	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
92	N Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
93	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
94	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
95	pH	Electrometric Method ^[4]
96	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]

97 Phenol...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
97	Phenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
98	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
99	Selenium	Digestion, Inductively Coupled Plasma Method ^[4]
100	Silver	Digestion, Inductively Coupled Plasma Method ^[4]
101	Styrene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
102	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
103	Tetrachloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
104	Toluene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
105	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
106	TPH (C ₅ -C ₈)	Purge and Trap, Gas Chromatographic Mass Spectrometric Method
107	TPH (C ₈ -C ₁₆)	Purge and Trap, Gas Chromatographic Mass Spectrometric Method
108	TPH (C ₁₆ -C ₃₅)	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
109	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
110	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
111	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
112	Trichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
113	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
114	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic / Mass Spectrometric Method ^[4]
115	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
116	Vanadium	Digestion, Inductively Coupled Plasma Method ^[4]

117 Vinyl...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
117	Vinyl acetate	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
118	Vinyl chloride	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
119	m-Xylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
120	o-Xylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
121	p-Xylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
122	Xylene (Total)	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[4]
123	Zinc	Digestion, Inductively Coupled Plasma Method ^[4]

อากาศเสีย (ปล่อยระบาย) จำนวน 28 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
2	Arsenic	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
3	Beryllium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
4	Cadmium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
5	Carbon Monoxide	Instrumental Analyzer Method ^[5]
6	Chlorine	Isokinetic Sampling, Ion Chromatographic Method ^[7]
7	Chromium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
8	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
9	Copper	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
10	Cresol	Absorption Sampling, Gas Chromatographic Method ^[6]
11	Dioxin/Furans	Isokinetic Sampling, Analysis by ISO/IEC 17025 Accredited Laboratory ^[5]

12 Hydrogen...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
12	Hydrogen Chloride	Isokinetic Sampling, Ion Chromatographic Method ^[7]
13	Hydrogen Fluoride	Isokinetic Sampling, Ion Chromatographic Method ^[7]
14	Hydrogen Sulfide	Absorption Sampling, Iodometric Method ^[5]
15	Lead	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
16	Manganese	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
17	Mercury	Isokinetic Sampling, Digestion, Cold-Vapour Atomic Absorption Spectrometric Method ^[5]
18	Nickel	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
19	Opacity	Ringelmann's Method ^[1]
20	Oxides of Nitrogen	1) Absorption Sampling, Colorimetric Method ^[6] 2) Instrumental Analyzer Method ^[7]
21	Tellurium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
22	Tin	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
23	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ^[7]
24	Selenium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
25	Sulfur Dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method ^[5] 2) Instrumental Analyzer Method ^[5]
26	Sulfuric Acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method ^[6]
27	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
28	Xylene	Adsorption Sampling, Gas Chromatographic Method ^[6]

สิ่งปฏิกูลหรือวัสดุ...

สิ่งปลูกหรือวัสดุที่ไม่ใช่แล้ว จำนวน 37 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
2	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
3	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[7,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
7	Chlordane	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
8	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction Colorimetric Method; Calculation ^[10,17] 2) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[2,10,17]
9	Chromium (VI)	1) Waste Extraction, Digestion, Colorimetric Method ^[10,17] 2) Alkaline Digestion, Colorimetric Method ^[10,17]
10	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
11	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
12	Dieldrin	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
13	DDD	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
14	DDE	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
15	DDT	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
16	2,4-D (2,4-Dichlorophenoxyacetic acid)	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
17	Endrin	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
18	Heptachlor	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
19	Kepone	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
20	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,11] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
21	Lindane	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[2,18] 2) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[18]
23	Methoxychlor	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
24	Mirex	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
25	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
26	Polychlorinated Biphenyls (PCBs)	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
27	Pentachlorophenol	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
28	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
29	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
31	Silvex; 2,4,5-Trichlorophenoxypropionic acid	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
32	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
33	Total Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction Colorimetric Method; Calculation ^[10,17] 2) Digestion, Inductively Coupled Plasma – Atomic Emission Spectrometry Method ^[8,15]
34	Toxaphene	Ultrasonic Extraction, Gas Chromatographic Method ^[12,20,21]
35	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[14,22]
36	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]
37	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[2,15] 2) Digestion, Inductively Coupled Plasma Method ^[8,15]

ดิน จำนวน 123 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
2	Acetone	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
3	Aldrin	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
4	Anthracene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
5	Antimony	Digestion, Inductively Coupled Plasma Method ^[9,15]

6 Arsenic...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
6	Arsenic	Digestion, Inductively Coupled Plasma Method ^[9,15]
7	Atrazine	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
8	Barium	Digestion, Inductively Coupled Plasma Method ^[9,15]
9	Benzo(a)anthracene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
10	Benzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
11	Benzo(b)fluoranthene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
12	Benzo(k)fluoranthene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
13	Benzoic acid	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
14	Benzo(a)pyrene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
15	Benzo(g,h,i)perylene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
16	Beryllium	Digestion, Inductively Coupled Plasma Method ^[9,15]
17	Bis(2-Chloroethyl)ether	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
18	Bis(2-Ethylhexyl)phthalate	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
20	Bromoform	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
21	Butyl benzyl phthalate	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
22	Cadmium	Digestion, Inductively Coupled Plasma Method ^[9,15]
23	Carbazole	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
24	Carbon disulfide	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
25	Carbon tetrachloride	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]

26 Chlordane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
26	Chlordane	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
27	p-Chloroaniline	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
28	Chlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
29	Chlorodibromomethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
30	Chloroform	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
31	2-Chlorophenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
32	Chromium	Digestion, Inductively Coupled Plasma Method ^[9,15]
33	Chromium (III)	Digestion, Inductively Coupled Plasma Method ; Filtration, Colorimetric Method; Calculation ^[9,10,15]
34	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^[10]
35	Chrysene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
36	Cyanide	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
37	2,4-D	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
38	DDD	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
39	DDE	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
40	DDT	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
41	Dibenz(a,h)anthracene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
42	Di-n-Butyl phthalate	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
43	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
44	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
45	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
46	3,3-Dichlorobenzidine	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
47	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
48	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
49	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
50	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
51	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
52	2,4-Dichlorophenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
53	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
54	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
55	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
56	Dieldrin	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
57	Diethyl phthalate	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
58	2,4-Dimethylphenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
59	2,4-Dinitrophenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
60	2,4-Dinitrotoluene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
61	2,6-Dinitrotoluene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
62	Di-n-octyl phthalate	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
63	Endosulfan	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
64	Endrin	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
65	Ethylbenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
66	Fluoranthene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
67	Fluorene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
68	Heptachlor	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
69	Heptachlor epoxide	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
70	Hexachlorobenzene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
71	Hexachloro-1,3-butadiene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
72	α -HCH	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
73	β -HCH	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
74	γ -HCH	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
75	Hexachlorocyclopentadiene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
76	Hexachloroethane	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
77	n-Hexane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
78	Indeno(1,2,3-cd)pyrene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
79	Isophorone	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
80	Lead	Digestion, Inductively Coupled Plasma Method ^[9,15]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
81	Manganese	Digestion, Inductively Coupled Plasma Method ^[9,15]
82	Mercury	Digestion, Cold vapor Atomic Absorption Spectrometric Method
83	Methoxychlor	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
84	Methyl Bromide	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
85	Methylene Chloride	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
86	2-Methylnaphthalene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
87	2-Methylphenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
88	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
89	Naphthalene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
90	Nickel	Digestion, Inductively Coupled Plasma Method ^[9,15]
91	Nitrobenzene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
92	N-Nitrosodiphenylamine	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
93	N-Nitrosodi-n-propylamine	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
94	Pentachlorophenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
95	Phenanthrene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
96	Phenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
97	Polychlorinated Biphenyls (PCBs)	Ultrasonic Extraction, Gas Chromatographic Method ^[9,16,17]
98	Pyrene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[23,24]
99	Selenium	Digestion, Inductively Coupled Plasma Method ^[9,15]
100	Silver	Digestion, Inductively Coupled Plasma Method ^[9,15]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
101	Styrene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
102	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
103	Tetrachloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
104	Toluene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
105	Toxaphene	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[9,10]
106	TPH (C ₅ -C ₈)	Purge and Trap, Gas Chromatographic Mass Spectrometric Method ^[14,22]
107	TPH (C ₈ -C ₁₆)	Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method ^[9,10,18]
108	TPH (C ₁₆ -C ₃₅)	Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method ^[10,18]
109	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
110	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
111	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
112	Trichloroethylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
113	2,4,5-Trichlorophenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[9,10]
114	2,4,6-Trichlorophenol	Microwave Extraction, Gas Chromatographic / Mass Spectrometric Method ^[9,10]
115	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
116	Vanadium	Digestion, Inductively Coupled Plasma Method ^[9,15]
117	Vinyl Acetate	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]
118	Vinyl Chloride	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[14,22]

119 m-Xylene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
119	m-Xylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[6,8]
120	o-Xylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[6,8]
121	p-Xylene	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[6,8]
122	Xylene (Total)	Purge and Trap, Gas Chromatographic / Mass Spectrometric Method ^[6,8]
123	Zinc	Digestion, Inductively Coupled Plasma Method ^[9,15]

เอกสารอ้างอิง

- กระทรวงอุตสาหกรรม. ประกาศกระทรวงอุตสาหกรรม พ.ศ.2549 เรื่อง กำหนดค่าปริมาณเขม่าควันที่เจือปนในอากาศที่ระบายออกจากปล่องของหม้อน้ำโรงสีข้าวที่ใช้แก๊สเป็นเชื้อเพลิง.
- ราชกิจจานุเบกษา. 4 ธันวาคม 2549. เล่มที่ 123 ตอนพิเศษ 125 ง.
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ที่ อก ๐๓๒๐/๑๗๔๑๓



๒๗ บ.ค. ๒๕๖๖

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง)

อ้างถึง คำขอเปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๔ ธันวาคม ๒๕๖๖

ตามหนังสือที่อ้างถึง บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง) ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๑๔๗ สถานที่ตั้งเลขที่ ๑/๒๐๔ และ ๑/๒๑๑ หมู่ที่ ๑ ตำบลบ้านฉาง อำเภอบ้านฉาง จังหวัดระยอง ขอเปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์ ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๓ ราย ได้แก่

- | | |
|------------------------|----------------------------|
| ๑. นายฟ้าลั่น ศรีธาบุญ | ทะเบียนเลขที่ ๖-๑๔๗-จ-๐๐๑๖ |
| ๒. นายปริญญ์ ทิพย์ชิต | ทะเบียนเลขที่ ๖-๑๔๗-จ-๐๐๒๑ |
| ๓. นายนิศ พงษ์วิรัชไชย | ทะเบียนเลขที่ ๖-๑๔๗-จ-๐๐๒๓ |

ทั้งนี้ หากท่านมีความประสงค์จะยื่นคำขอใด ๆ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



ผู้อำนวยการศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก

ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก

โทร. ๐ ๓๓๑๓ ๖๐๕๕ ต่อ ๕๐๐๑-๒

ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th



"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"



ที่ อก ๐๓๒๐/ ๑๗๔๑๓



๒๗ บ.ค. ๒๕๖๖

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง)

อ้างถึง คำขอเปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๔ ธันวาคม ๒๕๖๖

ตามหนังสือที่อ้างถึง บริษัท เอสจีเอส (ประเทศไทย) จำกัด (สาขาระยอง) ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๑๔๗ สถานที่ตั้งเลขที่ ๑/๒๐๔ และ ๑/๒๑๑ หมู่ที่ ๑ ตำบลบ้านฉาง อำเภอบ้านฉาง จังหวัดระยอง ขอเปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์ ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เพิ่มเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๑ ราย ได้แก่ นายจิตรเทพ มีเงิน ทะเบียนเลขที่ ๖-๑๔๗-จ-๐๐๓๓ ทั้งนี้ หากท่านมีความประสงค์จะยื่นคำขอใด ๆ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



ผู้อำนวยการศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก

ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

ศูนย์วิจัยและเตือนภัยมลพิษโรงงานภาคตะวันออก

โทร. ๐ ๓๓๑๓ ๖๐๕๕ ต่อ ๕๐๐๑-๒

ไปรษณีย์อิเล็กทรอนิกส์ eirw@diw.mail.go.th



"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"





Ref No. : 0303/17005

CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

SGS (Thailand) Limited, Laboratory Services
10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

has successfully undergone assessment according to ISO/IEC 17025 : 2017
 and under the Bureau of Laboratory Accreditation, Department of Science Service
 for the requirements, regulations and criteria for the competence of testing laboratories

LABORATORY ACCREDITATION
 Accreditation Number TESTING - 0017
 BLA-DSS

The scope of accreditation is as annexed hereto

Issue date : 7th November 2022Expired date : 6th November 2026

Signature :

Director of Bureau of Laboratory Accreditation

Bureau of Laboratory Accreditation, Department of Science Service,
 Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,

Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1	Water	- Cadmium 0.002 mg/L to 0.1 mg/L - Copper 0.01 mg/L to 1.0 mg/L - Lead 0.01 mg/L to 1.0 mg/L - Manganese 0.1 mg/L to 4.0 mg/L - Nickel 0.01 mg/L to 1.0 mg/L - Zinc 0.01 mg/L to 1.0 mg/L - Arsenic 0.002 mg/L to 0.008 mg/L	In - house method : I BEN-05119 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 F In - house method : LBEN-05119 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3114 C

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Issue Number 13

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

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Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Antimony 0.63 µg/L to 12.5 µg/L - Arsenic 0.63 µg/L to 6.25 µg/L - Cadmium 0.63 µg/L to 6.25 µg/L - Chromium 0.63 µg/L to 12.5 µg/L - Cobalt 1.25 µg/L to 62.5 µg/L - Copper 0.63 µg/L to 6.25 µg/L - Lead 0.63 µg/L to 6.25 µg/L - Manganese 0.63 µg/L to 6.25 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA Method 6020B, Revision 2

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Nickel 0.63 µg/L to 6.25 µg/L - Silver 2.5 µg/L to 62.5 µg/L - Zinc 2.5 µg/L to 62.5 µg/L - Mercury 0.5 µg/L to 8.0 µg/L - Hexavalent chromium 1.0 µg/L to 6.25 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA Method 6020B, Revision 2 In - house method : LBEN-08145 based on United States Environmental Protection Agency, 1994, EPA Method 245.1, Revision 3.0 ISO 18412 : 2005

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- pH 6.0 to 10.0 - Ammonia - Nitrogen 0.10 mg/L to 10.0 mg/L - Total phosphorus 0.10 mg/L to 10.0 mg/L	In - house method : LBEN-09152 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - H ⁺ B In-house method : LBEN-19003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NH ₃ -F In - house method : LBEN-19002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P J

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Oil and Gresce 0.50 mg/L to 100.0 mg/L - Color 0.10 m ⁻¹ to 10.00 m ⁻¹ - Phenol 0.001 mg/L to 0.10 mg/L - Cyanide 0.01 mg/L to 0.50 mg/L	In - house method : LBEN-18005 based on United States Environmental Protection Agency, 2010, EPA, Method 1664, Revision B ISO 7887 : 2011, method B In - house method : LBEN-15007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5530 B, C In - house method : LBEN-97018 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-CN ⁻ C, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Navy Blue 1.0 mg/L to 7.5 mg/L Azo colorants - Aniline - n-Methylaniline - p-Toluidine - o-Toluidine - m-Toluidine - n-Ethylaniline - 2-Chloroaniline - 2,4-Xyldine - 2,6-Xyldine 0.10 µg/L to 3.00 µg/L	In - house method : LBLC-19004 based on United States Environmental Protection Agency, 2007, EPA Method 8321 B In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Azo colorants - o-Anisidine - 4-Chloroaniline - n,n-diethylaniline - p-Cresidine - 2,4,5-Trimethylaniline - 4-Chloro-o-toluidine - 2,4-Toluenediamine - 2,4-Diaminoanisole - 2-Naphtylamine - 5-Nitro-o-toluidine - 5-Nitro-o-anisidine - 4-Aminobiphenyl - 4-Aminoazobenzene - 4,4'-Oxydianiline 0.10 µg/L to 3.00 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Azo colorants - Benzidine - 4,4'-Thiodianiline - o-Aminoazotoluene - 3,3'-Dimethyl-4,4'-diaminodiphenylmethane - 3,3'-Dimethylbenzidine - 4,4'-Thiodianiline - 3,3'-Dichlorobenzidine - 4,4'-Methylene-bis- (2-chloro aniline) - 3,3'-Dimethoxybenzidine 0.10 µg/L to 3.00 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Organotin Compounds - Trimethyltin(TMT) - Dimethyltin(DMT) - Dipropyltin-dichloride(DProT) - Monobutyltin(MBT) - Tripropyltin(TPrT) - Dibutyltin(DBT) - Tributyltin(TBT) - Monooctyltin(MOT) - Tetraethyltin(TeBT) - Diphenyltin(DPhT) - Dioctyltin(DOT) - Triphenyltin(TPhT) - Tri-cyclohexyltin(TCyT) - Tri-n-octyltin(TOT) 0.05 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18006 based on ISO 17353 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Polycyclic Aromatic Hydrocarbons (PAHs) - Naphthalene - 2-Methylphtalene - 1-Methylphtalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) Anthracene - Chrysene 0.01 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18008 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Polycyclic Aromatic Hydrocarbons (PAHs) - Benzo (b) Fluoranthene - Benzo (j) Fluoranthene - Benzo (k) Fluoranthene - Benzo (e) pyrene - Benzo (a) pyrene - Indenol (1,2,3-cd) pyrene - Dibenzo (ah) anthracene - Benzo (ghi) perylene 0.01 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18008 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Chlorophenol - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,5-Dichlorophenol - 2,3-Dichlorophenol - 3,4-Dichlorophenol - Pentachlorophenol - 2,3,4,6-Tetrachlorophenol 0.5 µg/L to 20.0 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Chlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 2,3,4-Trichlorophenol - 2,3,5-Trichlorophenol - 3,4,5-Trichlorophenol - 2,3,4,5-Tetrachlorophenol - 2,3,5,6-Tetrachlorophenol - 2,3,6-Trichlorophenol 0.5 µg/L to 20.0 µg/L Phthalates - Dimethyl phthalate - Diethyl phthalate - Di-iso-buthyl phthalate - Benzyl buthyl phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015 In - house method : SOP LBGC-18007 based on ISO 18856 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Phthalates - Di-butyl phthalate - Di-2-ethyl hexyl phthalate - Di-isononyl phthalate - Bis-methylglycol ester phthalate - Di-isoheptyl phthalate - Bis cyclohexyl phthalate - Di-n-octyl phthalate - Bis-(2-propylheptyl) phthalate - Bis-nonyl phthalate - Bis-propyl phthalate - Bis-iso-pentyl phthalate - n-pentyl-iso-pentyl phthalate - Bis-n-pentyl phthalate - Di-n-hexyl phthalate - Bis-iso-octyl phthalate - Di-isodecyl phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18007 based on ISO 18856 : 2004

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Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Volatile Organic Compound - Methylene Chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - Tetrachloroethylene - Total Xylene 5 µg/L to 20 µg/L - p- Cresol - o- Cresol - m- Cresol 5 µg/L to 25 µg/L	In - house method : SOP LBGC-18009 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0 In - house method : SOP LBGC-18010 based on United States Environmental Protection Agency, 1996, EPA, Method 8260 B, Revision 2.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Perfluorocarbons (PFCs) : - 6:2 FTOH - 8:2 FTOH - 10:2 FTOH - 6:2 FTA - 8:2 FTA - 10:2 FTA 5 µg/L to 25 µg/L Flame retardants - 2,2-bis(bromomethyl)-1,3-propane-diol - Tris (2-chloroethyl) phosphate - Tris (1,3-dichloro-isopropyl) phosphate - Hexabromocyclododecane 5.0 µg/L to 25.0 µg/L	In - house method : LBEGC-18011 based on GB/T 29493.2 : 2013 In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Flame retardants - Polybrominated biphenyls ethers - Polybrominated diphenyl ethers 0.25 µg/L to 1.5 µg/L Disperse dyes - Basic violet 1 - Basic violet 3 - Disperse Blue 1 - Disperse Blue 7 - Disperse Brown 1 - Disperse Orange 1 - Disperse Orange 3 - Disperse Orange 11 - Disperse Orange 37/76 - Disperse Red 1 10.0 µg/L to 50.0 µg/L	In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0 In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015, 53 : page 1257-1264

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Disperse dyes - Disperse Violet 1 - Disperse Yellow 1 - Disperse Yellow 9 - Disperse Yellow 39 - Disperse Yellow 54 - Solvent Yellow 1 - Solvent Yellow 2 - Solvent Yellow 3 - Solvent Yellow 14 10.0 µg/L to 50.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015, 53 : page 1257-1264

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Flame retardant - Tris (2,3-dibromopropyl) phosphate - Bis (2,3-dibromopropyl) phosphate 1.00 µg/L to 4.00 µg/L - Glycol 20 µg/L to 100 µg/L	In - house method : LBLC-18001 based on ISO 18857-2 : 2009 In - house method : LBGC-18012 based on United States Environmental Protection Agency, 2014, EPA, Method 600/R-14/008

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Conductivity 147 µS/cm to 12 880 µS/cm - Total solids dried at 103 °C to 105 °C 50 mg/L to 20 000 mg/L - Total suspended solids dried at 103 °C to 105 °C 5 mg/L to 10 000 mg/L	In - house method : LBEN-02110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2510 B In - house method : LBEN-09150 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B In - house method : LBEN-97042 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L - Total hardness (calculates as CaCO ₃) 1 mg/L to 300 mg/L - BOD 2 mg/L to 2 100 mg/L	In - house method : LBEN-00106 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C In - house method : LBEN-00098 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C In - house method : LBEN-97006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5210 B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- COD 10 mg/L to 300 mg/L	In - house method : LBEN-97010 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C
		- COD 10 mg/L to 400 mg/L	In - house method : LBEN-12161 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D
		- pH 4.0 to 9.2	In - house method : LBEN-21001 based on United States Environmental Protection Agency, Editorial Revision 1978, 1982, EPA Method 150.1

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Nitrate 0.02 mg/L to 6.0 mg/L	In - house method : LBEN-97029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₃ ⁻ E
		- Nitrite 0.02 mg/L to 1.0 mg/L	In - house method : LBEN-97049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₂ ⁻ B
		- Sulfate 2.0 mg/L to 100.0 mg/L	In - house method : LBEN-14003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - SO ₄ ²⁻ E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Total organic carbon 0.5 mg/L to 10.0 mg/L Perfluorocarbons (PFCs) : - PFPeA - PFBS - PFHxS - PFHpS - PF-3,7-DMOA - PFDA - PFOS - PFUnA - PFDoA - PFDS 0.05 µg/L to 0.3 µg/L	In - house method : LBEN-09149 based on United States Environmental Protection Agency, 2004, EPA Method 9060 A, Revision 1.0 In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03 and analysis with HPLC-MS

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Perfluorocarbons (PFCs) : - PFTrA - PFTeA - PFOSA 0.05 µg/L to 0.3 µg/L Alkyl phenol ethoxylate : - OPEO - NPEO 1 µg/L to 10 µg/L Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene 0.20 µg/L to 5.00 µg/L	In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03 and analysis with HPLC-MS In - house method : LBLC-17013 based on ISO 18857-2 : 2009 and analysis with HPLC-MS In - house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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1 (cont.)	Water	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 3,5-Dichlorotoluene - 2,4-Dichlorotoluene - 2,5 Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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1 (cont.)	Water	Chlorobenzenes and Chlorotoluenes (COCs) : - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene - 2,3,6-Trichlorotoluene - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Trichlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 1.0 µg/L to 10.0 µg/L - Carbon disulfide 0.05 mg/L to 1 mg/L	In - house method : LBLC-17013 based on ISO 18857-2: 2009 In - house method : LBGC-2007 based on United States Environmental Protection Agency, 2017, EPA Method 8260D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2	Wastewater	- Mercury 0.5 µg/L to 8.0 µg/L - pH 4.0 to 10.0 - Total solids dried at 103 °C to 105 °C 50 mg/L to 20 000 mg/L	In - house method : LBEN-08145 based on United States Environmental Protection Agency, 1994, EPA Method 245.1, Revision 3.0 In - house method : LBEN-09152 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - H ⁺ B In - house method : LBEN-09150 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total suspended solids dried at 103 °C to 105 °C 5 mg/L to 10 000 mg/L - Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L - Conductivity 147 µS/cm to 12 880 µS/cm	In - house method : LBEN-97042 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D In - house method : LBEN-00106 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C In - house method : LBEN-02110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2510 B

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2 (cont.)	Wastewater	- Total hardness (calculates as CaCO ₃) 2 mg/L to 500 mg/L - BOD 2 mg/L to 2 100 mg/L - COD 10 mg/L to 3 000 mg/L	In - house method : LBEN-00098 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C In - house method : LBEN-97006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5210 B In - house method : LBEN-97010 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- COD 10 mg/L to 500 mg/L - pH 4.0 to 9.2 - Nitrate 0.02 mg/L to 15.0 mg/L	In - house method : LBEN-12161 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D In - house method : LBEN-21001 based on United States Environmental Protection Agency, Editorial Revision 1978, 1982, EPA Method 150.1 In - house method : LBEN-97029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₃ ⁻ E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Nitrite 0.02 mg/L to 1.0 mg/L - Sulfate 2.0 mg/L to 100.0 mg/L - Total organic carbon 0.5 mg/L to 10.0 mg/L	In - house method : LBEN-97049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₂ ⁻ B In - house method : LBEN-14003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - SO ₄ ²⁻ E In - house method : LBEN-09149 based on United States Environmental Protection Agency, 2004, EPA Method 9060 A, Revision 1.0

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2 (cont.)	Wastewater	- Ammonia-Nitrogen 0.02 mg/L to 20 mg/L - Total phosphorus 0.01 mg/L to 40 mg/L - Dissolved phosphorus 0.005 mg/L to 20 mg/L	In - house method : LBEN-11158 based on ASTM D1426-08 In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B4, E In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B1, E

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2 (cont.)	Wastewater	- Glycol 20 µg/L to 200 µg/L - Ammonia-Nitrogen 0.10 mg/L to 10.0 mg/L - Total phosphorus 0.10 mg/L to 10.0 mg/L	In - house method : LBGC-18012 based on United States Environmental Protection Agency, 2014, EPA, Method 600/R-14/008 In - house method : LBEN-19003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NH ₃ -F In - house method : LBEN -19002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P J

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2 (cont.)	Wastewater	- Chloride 1.0 mg/L to 20 000 mg/L - Navy Blue 1.0 mg/L to 7.5 mg/L	In - house method : LBEN-11157 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ D In - house method : LBLC-19004 based on United States Environmental Protection Agency, 2007, EPA, Method 8321B

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2 (cont.)	Wastewater	Perfluorocarbons (PFCs) : - PFPeA - PFBS - PFHxS - PFHpS - PF-3,7-DMOA - PFDA - PFOS - PFUnA - PFDoA - PFDS - PFTrA - PFTeA - PFOSA 0.05 µg/L to 0.3 µg/L	In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03 and analysis with HPLC-MS

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Alkyl phenol ethoxylate : - OPEO - NPEO 1 µg/L to 10 µg/L - Phenol 0.001 mg/L to 0.1 mg/L - Cyanide 0.05 mg/L to 0.2 mg/L	In – house method : LBLC-17013 based on ISO 18857-2 : 2009 and analysis with HPLC-MS In – house method : LBEN-15007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 5530 B, C In – house method : LBEN-97018 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 4500 - CN ⁻ C, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Oil and Grease 1 mg/L to 100 mg/L - Oil and Grease 0.5 mg/L to 100 mg/L - Sulfide 0.01 mg/L to 1.0 mg/L	In – house method : LBEN-97031 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 5520 B In – house method : LBEN-18005 based on United States Environmental Protection Agency, 2010, EPA, Method 1664, Revision B In – house method : LBEN-97045 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 4500-S ²⁻ -D

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Address : 10, 10/1-4 and 12 Soi Rama III 5.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Sulfite 0.75 mg/L to 3.0 mg/L - Total kjeldahl nitrogen 2 mg/L to 200 mg/L - Color 0.10 m ⁻¹ to 10.00 m ⁻¹	In - house method : LBEN-18006 based on United States Environmental Protection Agency, 1978, EPA, Method 377.1 In - house method : LBAG-18002 based on ISO 5663 : 1984 ISO 7887 : 2011, Method B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Arsenic 0.63 µg/L to 6.25 µg/L - Lead 0.63 µg/L to 6.25 µg/L - Cadmium 0.63 µg/L to 6.25 µg/L - Copper 0.63 µg/L to 6.25 µg/L - Manganese 0.63 µg/L to 6.25 µg/L - Nickel 0.63 µg/L to 6.25 µg/L - Zinc 2.5 µg/L to 62.5 µg/L - Silver 2.5 µg/L to 62.5 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020B, Revision 2

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Chromium 0.63 µg/L to 12.5 µg/L - Antimony 0.63 µg/L to 12.5 µg/L - Cobalt 1.25 µg/L to 62.5 µg/L - Hexavalent chromium 1.0 µg/L to 5.0 µg/L Flame retardant - Tris (2,3-dibromopropyl) phosphate - Bis (2,3-dibromopropyl) phosphate - 2,2 Bis (bromomethyl)-1,3-propanediol 1.00 µg/L to 4.00 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020B, Revision 2 ISO 18412 : 2005 In - house method : LBLC-18001 based on ISO 18857-2 : 2009

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Disperse dyes - Disperse Blue 1 - Disperse Blue 7 - Disperse Brown 1 - Disperse Orange 1 - Disperse Orange 3 - Disperse Orange 11 - Disperse Orange 37/76 - Disperse Red 1 - Disperse Yellow 1 - Disperse Yellow 9 - Disperse Yellow 39 - Basic violet 3 - Solvent Yellow 1 - Solvent Yellow 2 - Solvent Yellow 3 10.0 µg/L to 50.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015,53 : page 1257-1264

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Disperse dyes - Basic violet 1 - Solvent Yellow 14 - Disperse Yellow 54 - Disperse Violet 1 10.0 µg/L to 50.0 µg/L Azo colorants - Aniline - n-Methylaniline - p-Toluidine - o-Toluidine - m-Toluidine - n-Ethylaniline - 2-Chloroaniline - 2,4-Xylidine 2,6-Xylidine 0.5 µg/L to 3.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015,53 : page 1257-1264 In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Azo colorants - o-Anisidine - 4-Chloroaniline - n,n-diethylaniline - p-Cresidine - 2,4,5-Trimethylaniline - 4-Chloro-o-toluidine - 2,4-Toluenediamine - 2,4-Diaminoanisole - 2-Naphthylamine - 5-Nitro-o-toluidine - 5-Nitro-o-anisidine - 4-Aminobiphenyl - 4-Aminoazobenzene - 4,4'-Oxydianiline - Benzidine 0.5 µg/L to 3.0 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Azo colorants - 4,4'-Thiodianiline - o-Aminoazotoluene - 3,3'-Dimethyl-4,4'-diaminodiphenylmethane - 3,3'-Dimethylbenzidine - 4,4'-Thiodianiline - 3,3'-Dichlorobenzidine - 4,4'-Methylenebis (2-Chloroaniline) - 3,3'-Dimethoxybenzidine 0.5 µg/L to 3.0 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Flame retardants - 2,2-bis(bromomethyl)-1,3-propane-diol - Tris (2-chloroethyl) phosphate - Tris (1,3-dichloro-isopropyl) phosphate - Hexabromocyclododecane 5 µg/L to 25 µg/L - Polybrominated biphenyls ether - polybrominated diphenyl ethers 0.25 µg/L to 1.5 µg/L	In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Organotin compounds - Trimethyltin(TMT) - Dimethyltin(DMT) - Dipropyltin-dichloride(DProT) - Monobutyltin(MBT) - Tripropyltin(TPrT) - Dibutyltin(DBT) - Tributyltin(TBT) - Mono-octyltin(MOT) - Tetra-butyltin(TeBT) - Diphenyltin(DPhT) - Dioctyltin(DOT) - Triphenyltin(TPhT) - Tri-cyclohexyltin(TCyT) - Tri-n-octyltin(TOT) 0.05 µg/L to 1.0 µg/L	In - house method : SOP LBGC-18006 based on ISO 17353 : 2004

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2 (cont.)	Wastewater	Polycyclic Aromatic Hydrocarbons (PAH) - Naphthalene - 2-Methylphtalene - 1-Methylphtalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) Anthracene - Chrysene 1.0 µg/L to 20.0 µg/L	In - house method : LBGC-18008 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Polycyclic Aromatic Hydrocarbons (PAH) - Benzo(b) Fluoranthene - Benzo(j) Fluoranthene - Benzo(k) Fluoranthene - Benzo(e) Pyrene - Benzo(a) Pyrene - Indeno(1,2,3-cd) Pyrene - Dibenzo (ah) Anthracene - Benzo (ghi) perylene 1.0 µg/L to 20.0 µg/L	In - house method : LBGC-18008 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorophenol - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,5-Dichlorophenol - 2,3-Dichlorophenol - 3,4-Dichlorophenol - Pentachlorophenol - 2,3,4,6-Tetrachlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 2,3,4-Trichlorophenol 0.5 µg/L to 20.0 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorophenol - 2,3,4,5-Tetrachlorophenol - 2,3,5-Trichlorophenol - 2,3,5,6-Tetrachlorophenol - 2,3,6-Trichlorophenol - 3,4,5-Trichlorophenol 0.5 µg/L to 20.0 µg/L Phthalates - Dimethyl phthalate - Diethyl phthalate - Bis-iso-buthyl ester phthalate - Benzyl buthyl phthalate - Di-n-octyl phthalate - Di-2-ethyl hexyl phthalate - Di-isononyl phthalate - Bis methylglycol ester phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015 In - house method : LBGC-18007 based on ISO 18856 : 2004

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2 (cont.)	Wastewater	Phthalates - Di-isoheptyl phthalate - Bis cyclohexyl phthalate - Di-n-octyl phthalate - Bis-(2-propylheptyl) phthalate - Bis-nonyl phthalate - Bis-propyl phthalate - Bis-iso-pentyl phthalate - n-pentyl-iso-pentyl phthalate - Bis-n-pentyl phthalate - Di-n-hexyl phthalate - Bis-iso-octyl phthalate - Di-isodecyl phthalate 5 µg/L to 30 µg/L	In - house method : LBGC-18007 based on ISO 18856 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Volatile organic compounds - Methylene Chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - Tetrachloroethylene - Total Xylene 5 µg/L to 20 µg/L - p- Cresol - o- Cresol - m- Cresol 5 µg/L to 25 µg/L	In - house method : SOP LBGC-18009 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0 In - house method : LBGC-18010 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Perfluorocarbons (PFCs) : - 6:2 FTOH - 8:2 FTOH - 10:2 FTOH - 6:2 FTA - 8:2 FTA - 10:2 FTA 5 µg/L to 25 µg/L Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene 0.20 µg/L to 5.00 µg/L	In - house method : LBGC-18011 based on DIN 38407-42 : 2011 In - house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 3,5-Dichlorotoluene - 2,4-Dichlorotoluene - 2,5 Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Trichlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4 tert OP) 1.0 µg/L to 10.0 µg/L - Carbon disulfide 0.05 mg/L to 1 mg/L - Hydrocarbon 1.0 mg/L to 50 mg/L	In – house method : LBLC-17013 based on ISO 18857-2: 2009 In – house method : LBGC-20007 based on United States Environmental Protection Agency, 2017, EPA Method 8260D In - house method : LBEN 21002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220B, 5520F

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Coliforms MPN/100 mL Detected or Not detected/ 100 mL - Coliforms cfu/100 mL - <i>E.coli</i> MPN/100 mL Detected or Not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed, 2017, part 9221 B ISO 9308 -1: 2014 / Amd.1: 2016 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed, 2017, part 9221B, 9221C, 9221F and FDA BAM Online, 2020 (Chapter 4)

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
3	Surface water	- Ammonia-Nitrogen 0.02 mg/L to 20 mg/L - Chloride 1 mg/L to 20 000 mg/L - Total phosphorus 0.01 mg/L to 40 mg/L	In - house method : LBEN-11158 based on ASTM D1426-08 In - house method : LBEN-11157 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - Cl ⁻ D In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B4, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
3 (cont.)	Surface water	- Dissolved phosphorus 0.005 mg/L to 20 mg/L	In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B1, E
4	Sludge	- Mercury 0.1 mg/kg to 4.0 mg/kg - Hexavalent chromium 1.0 mg/kg to 40.0 mg/kg	In - house method : LBEN-18008 based on United States Environmental Protection Agency, 2007, EPA, Method 7473, Revision 0 In - house method : LBEN 18003 based on United States Environmental Protection Agency, 1992, EPA, Method 7196A, Revision 1

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
4 (cont.)	Sludge	- Arsenic 0.50 mg/kg to 5.00 mg/kg - Cadmium 0.50 mg/kg to 5.00 mg/kg - Lead 0.50 mg/kg to 5.00 mg/kg - Zinc 1.00 mg/kg to 5.00 mg/kg - Nickel 1.00 mg/kg to 5.00 mg/kg - Copper 1.00 mg/kg to 5.00 mg/kg	In - house method : LBEN 18007 based on United States Environmental Protection Agency, 2014, EPA, Method 6020B, Revision 2

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4 (cont.)	Sludge	- Cadmium 10 mg/kg to 1 000 mg/kg - Lead 10 mg/kg to 1 000 mg/kg - Cyanide 0.50 mg/kg to 10.0 mg/kg	In - house method : LBEN 18007 based on United States Environmental Protection Agency, 2007, EPA Method 6010C, Revision 3 In - house method : SOP LBEN-19001 based on ISO 11262 : 2011
5	Sludge Waste	Chlorophenol : - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol 0.05 mg/kg to 1.00 mg/kg	In - house method SOP LBGC-20004 based on ISO 14154 : 2005

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorophenol : - 2,3-Dichlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,4 Dichlorophenol - 3,5-Dichlorophenol - Pentachlorophenol - 2,3,4-Trichlorophenol - 2,3,5-Trichlorophenol - 2,3,6-Trichlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 3,4,5-Trichlorophenol 0.05 mg/kg to 1.00 mg/kg	In - house method SOP LBGC-20004 based on ISO 14154 : 2005

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Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorophenol : - 2,3,4,5-Tetrachlorophenol - 2,3,4,6-Tetrachlorophenol - 2,3,5,6-Tetrachlorophenol 0.05 mg/kg to 1.00 mg/kg Polycyclic Aromatic Hydrocarbons (PAHs) : - Naphthalene - 2-Methylphtalene - 1-Methylphtalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene 0.0025 mg/kg to 0.1 mg/kg	In - house method SOP LBGC-20004 based on ISO 14154 : 2005 In - house method : SOP LBGC-20005 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Polycyclic Aromatic Hydrocarbons (PAHs) : - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) anthracene - Chrysene - Benzo(k) fluoranthene - Benzo(b) fluoranthene - Benzo(j) fluoranthene - Benzo(e) pyrene - Benzo(a) pyrene - Indeno(1,2,3-cd) pyrene - Dibenzo (ah) anthracene - Benzo (ghi) perylene 0.0025 mg/kg to 0.1 mg/kg	In - house method : SOP LBGC-20005 based on DIN 38407-39:2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Glycol : - 2-Methoxyethanol - 2-Ethoxyethyl acetate - Bis(2-methoxyethyl)ether - 2-Ethoxyethanol - 2-Methoxypropylacetate - 2-Methoxyethylacetate - Triethylene glycol dimethyl ether - Ethylene glycol dimethyl ether 0.50 mg/kg to 5.00 mg/kg Organotin Compounds : - Trimethyltin (TMT) - Dimethyltin (DMT) - Monomethyltin (MMT) - Dipropyltin-dichloride (DProT) 0.50 mg/kg to 2.00 mg/kg	In - house method : SOP LBGC-20006 based on ISO 22892:2006 In - house method : SOP LBGC-21011 based on ISO 23161:2018

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Organotin Compounds : - Monobutyltin (MBT) - Tripropyltin (TPrT) - Dibutyltin (DBT) - Monophenyltin (MPHT) - Tributyltin (TBT) - Mono-octyltin (MOT) - Tetra-butyltin (TeBT) - Diphenyltin (DPHT) - Dioctyltin (DOT) - Tri-cyclohexyltin (TCyT) - Triphenyltin (TPHT) - Tri-n-octyltin (TOT) 0.50 mg/kg to 2.00 mg/kg	In - house method : SOP LBGC-21011 based on ISO 23161:2018

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Disperse dyes : - Acid Violet 49 - Basic Blue 26 - Basic Green 4 - Basic Red 9 - Basic Violet 1 - Basic Violet 3 - Disperse Blue 1 - Disperse Blue 3 - Disperse Blue 7 - Disperse Blue 106 - Disperse Yellow 1 - Disperse Yellow 3 - Disperse Yellow 9 - Disperse Red 17 - Solvent Yellow 1 - Solvent Yellow 3 1.00 mg/kg to 4.00 mg/kg	In - house method : SOP LBGC-21006 based on ISO 16373-3: 2014

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 2,4-Dichlorotoluene - 2,5-Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene 0.025 mg/kg to 0.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA Method 8270D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene - 2,3,6-Trichlorotoluene - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Tetrachlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene 0.025 mg/kg to 0.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA Method 8270D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.025 mg/kg to 0.50 mg/kg Azo dyes : - Aniline (62-53-3) - n-methylaniline (100-61-8) - p-Toluidine (106-49-0) - o-Toluidine (95-53-4) - m-Toluidine (108-44-1) - n-ethylaniline (103-69-5) - 2-Chloroaniline (95-51-2) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA Method 8270D In - house method : LBGC-21019 based on ISO 14362-1 and 3: 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Azo dyes : - 2,4-Xyldine (95-68-1) - 2,6-Xyldine (87-62-7) - o-Anisidine (90-04-0) - 4-Chloroaniline (106-47-8) - n,n-Diethylaniline (91-66-7) - p-Cresidine (120-71-8) - 2,4,5 -Trimethylaniline (137-17-7) - 4-Chloro-o-toluidine (95-69-2) - 2,4-Toluenediamine (95-80-7) - 2,4 -Diaminoanisoole (615-05-4) - 2-Naphtylamine (91-59-8) - 3,3'-dimethybenzidine (119-90-4) - 3,3'-dimethybenzidine (119-93-7) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21019 based on ISO 14362-1 and 3: 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Azo dyes : - 4,4'-Thiodianiline (139-65-1) - 3,3'-Dichlorobenzidine (91-94-1) - 4,4'-Methylene bis(2-chloroaniline) (101-14 4) - 4-Aminobipheny (92-67-1) - 4,4'-Oxydianiline (101-80-4) - Benzidine (92-87-5) - 4,4'-Thiodianiline (101-77-9) - 3,3'-Dimethy- 4,4'-diaminodiphenymethane (838-88-0) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21019 based on ISO 14362-1 and 3: 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Perfluorinated/Polyfluorinated (PFCs) : - 1H,1H,2H,2H-Tridecafluoro-1-n-octanol (6:2 FTOH) - 1H,1H,2H,2H-Heptadecafluoro-1-decanol (8:2 FTOH) - 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) - 1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA) - 1H,1H,2H,2H-Heptadecafluorodecyl Acrylate (8:2 FTA) - 1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) 0.25 mg/kg to 1.5 mg/kg	In - house method : LBGC-21023 based on DIN 38407-42: 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Perfluorinated/Polyfluorinated (PFCs) : - PFOA - PFOS - PFBS - PFHXA 0.025 mg/kg to 0.15 mg/kg Flame retardant : - Tris(2-chloroethyl) phosphate (TCEP) - Tris(1,3-dichloro-isopropyl) phosphate (TDCP) - Hexabromocyclododecane (HBCDD) - Tri-o-cresyl phosphate(TOCP) - Tris-(aziridinyl)phosphine oxide (TEPA) - Polybromobiphenyls (PBB) - Polybromobiphenyls ether (PBDE) 0.25 mg/kg to 0.75 mg/kg	In - house method : LBLC-17014 based on DIN 38407-42: 2011 In - house method : LBGC-21020 based on ISO 22032: 2006

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Flame retardant : - Tris(2,3-dibromopropyl) phosphate - Bis(2,3-dibromopropyl) phosphate - 2,2-Bis(bromomethyl)-1,3-propanediol 0.5 mg/kg to 2 mg/kg Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 0.5 mg/kg to 5 mg/kg Alkylphenol Ethoxylates (APEOs) : - Nonylphenol ethoxylates (NPEO) - Octylphenol ethoxylates (OPEO) 0.1 mg/kg to 2 mg/kg	In - house method : LBLC-18001 based on ISO 22032: 2006 In - house method : LBLC-17013 based on ISO 18857-2: 2009 In - house method : LBLC-17013 based on ISO 18857-2: 2009

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Volatile Organic compound (Halogenated solvent) : - Methylene chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - tetrachloroethylene - p,m Xylene - o-xylene 0.02 mg/kg to 0.20 mg/kg	In - house method : LBGC-21024 based on United States Environmental Protection Agency, 2014, EPA Method 5021

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Phthalates : - Dimethyl phthalate (DMP) - Bis-iso-butyl ester Phthalate (DIBP) - Di-butyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-2-Ethyl Hexyl Phthalate (DEHP) - Di-n-octyl Phthalate (DNOP) - Bis-ethyl phthalate (DEP) - Bis-methylglycol ester Phthalate (DMEP) - Bis-iso-pentyl ester Phthalate (DiPP) - n-Pentyl-iso-Pentyl phthalate (iPnPP) - Bis-n-pentyl ester Phthalate (DnPP) - Di-n-hexyl Phthalate (DnHP/DnHxP) - Bis-cyclohexyl phthalate (DCHP) - Bis-(2-Propylheptyl) phthalate (DPHP) 0.05 mg/kg to 1.5 mg/kg	In - house method : LBGC-21021 based on ISO 18856: 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Phthalates : - Bis-propyl phthalate (DPrP) - Bis-n-heptyl phthalate (DHpP/DnHpP) - Bis-phenylphthalate(DIPHENYL / DPhP) - Bis-benzyl phthalate (DBzP) - Bis-nonyl phthalate (DNP) - Didecyl Phthalate (DDP) - Diundecyl phthalate(DUDP) 0.05 mg/kg to 1.5 mg/kg - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP) - Dihexyl Phthalate (DHP) - Bis-iso-octyl phthalate (DIOP) - Diisoheptyl phthalate (DIHP/DIHpP) 0.20 mg/kg to 6.0 mg/kg	In - house method : LBGC-21021 based on ISO 18856: 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Volatile Organic compound (Cresol) : - o-cresol - m-cresol - p-cresol 0.25 mg/kg to 1.5 mg/kg	In - house method : LBGC-21022 based on United States Environmental Protection Agency, 2017, EPA Method 8260D
6	Chemical fertilizer	- Water soluble potassium (Calculated as K ₂ O) 1.0 g/100 g to 60.4 g/100 g - Total Nitrogen 1.0 g/100 g to 46.5 g/100 g	In - house method : SOP LBCH-99246 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.12.02 In - house method : SOP LBAG-12276 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.05.01

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
6 (cont.)	Chemical fertilizer	- Total phosphorus (Calculated P_2O_5) 2.00 g/100 g to 61.68 g/100 g - Calcium oxide (Calculated from total calcium) 0.02 g/100 g to 51.8 g/100 g - Magnesium oxide (Calculated from total magnesium) 0.02 g/100 g to 81.04 g/100 g	In - house method : SOP LBAG-00106 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.09.01 In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.13.01 In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.14.01

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
6 (cont.)	Chemical fertilizer	- Total sulfur 0.02 g/100 g to 32.76 g/100 g	In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.15.01

Issue Date : 7th November 2022

Signature :



Director of Bureau of Laboratory Accreditation

Initial Issue Date 22nd June 2007

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แบบ กมช./สมอ.๒
Form NSC/TISI 2

ใบรับรองเลขที่ 23-LB0119
(Certificate No.)

ใบรับรองระบบงาน (Certificate of Accreditation)

อาศัยอำนาจตามความในพระราชบัญญัติการมาตรฐานแห่งชาติ พ.ศ. ๒๕๕๑
(By Virtue of National Standardization Act B.E. 2551 (2008))

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Secretary-General, Thai Industrial Standards Institute)

ออกใบรับรองฉบับนี้ให้
(Issues this certificate to)

บริษัท เอสจีเอส (ประเทศไทย) จำกัด ห้องปฏิบัติการทดสอบสิ่งแวดล้อม (สาขาระยอง)
(SGS (Thailand) Limited, Environmental Laboratory (Rayong Branch))

ตั้งอยู่เลขที่
(Address)

๑/๒๐๙ และ ๑/๒๑๑ หมู่ที่ ๑ ตำบลบ้านฉาง อำเภอบ้านฉาง จังหวัดระยอง
1/209 and 1/211 Moo 1, Ban Chang, Ban Chang, Rayong

ได้รับการรับรองความสามารถ
(Certificate of competence)

ตามมาตรฐานเลขที่ มอก. ๑๗๐๒๕ - ๒๕๖๑
(Standard No. TIS 17025-2561 (2018) (ISO/IEC 17025: 2017))

ข้อกำหนดทั่วไปว่าด้วยความสามารถของ ห้องปฏิบัติการทดสอบและห้องปฏิบัติการสอบเทียบ
General requirements for the competence of testing and calibration laboratories

หมายเลขการรับรองที่ ทดสอบ ๐๔๗๐
(Accreditation No. Testing 0470)

โดยมีรายละเอียดสาขาและขอบข่ายที่ได้ใบรับรอง แสดงไว้ใน QR CODE และ www.tisi.go.th
(Details of the scheme and scope of the certificate are shown in QR CODE and www.tisi.go.th)

ออกให้ ณ วันที่ ๒๐ กุมภาพันธ์ พ.ศ. ๒๕๖๖
(Issue date : 20 February B.E. 2566 (2023))

รองเลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
ปฏิบัติราชการแทน
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



Signed by สำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม (สมอ.)
Thai Industrial Standards Institute (TISI)
Date: 2023-02-20 16:10:56 366+07:00
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กระทรวงอุตสาหกรรม สำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Ministry of Industry Thailand, Thai Industrial Standards Institute)



แบบ กมช./สมอ.๒
Form NSC/TISI 2

ใบรับรองเลขที่ 22-IB0007
(Certificate No.)

ใบรับรองระบบงาน (Certificate of Accreditation)

อาศัยอำนาจตามความในพระราชบัญญัติการมาตรฐานแห่งชาติ พ.ศ. ๒๕๕๑
(By Virtue of National Standardization Act B.E. 2551 (2008))

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Secretary-General, Thai Industrial Standards Institute)

ออกใบรับรองฉบับนี้ให้
(Issues this certificate to)

บริษัท เอสจีเอส (ประเทศไทย) จำกัด
SGS (Thailand) Limited

ตั้งอยู่เลขที่
(Address)

๑๐๐ ถนนนางลิ้นจี่ แขวงช่องนนทรี เขตยานนาวา กรุงเทพมหานคร
(100 Nanglinchee Road, Chongnonsee, Yannawa, Bangkok)

ได้รับการรับรองความสามารถ
(Certificate of competence)

ตามมาตรฐานเลขที่ มอก. ๑๗๐๒๐ - ๒๕๕๖
(Standard No. ISO/IEC 17020 : 2012)

การตรวจสอบและรับรอง-ข้อกำหนดสำหรับหน่วยตรวจ
(Conformity assessment — Requirements for the operation of various types of bodies performing inspection)

หมายเลขการรับรองที่ หน่วยตรวจ ๐๐๓๔
(Accreditation No. INSPCTION 0034)

โดยมีรายละเอียดสาขาและขอบข่ายที่ได้ใบรับรอง แสดงไว้ใน QR CODE และ www.tisi.go.th
(Details of the scheme and scope of the certificate are shown in QR CODE and www.tisi.go.th)

ออกให้ ณ วันที่ ๓๑ มกราคม พ.ศ. ๒๕๖๔
(Issue date : 31 January B.E. 2565 (2022))

รองเลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
ปฏิบัติราชการแทน
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



กระทรวงอุตสาหกรรม สำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Ministry of Industry Thailand, Thai Industrial Standards Institute)



ABS Quality Evaluations

Certificate Of Conformance

This is to certify that the Quality Management System of:

SGS (Thailand) Ltd.

**100 Nanglinchee Road
Chongnonsee, Yannawa
Bangkok 10120
Thailand**

(WITH ADDITIONAL FACILITIES LISTED ON ATTACHED ANNEX)

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:
ISO 9001:2015

The Quality Management System is applicable to:

PROVISION OF PHYSICAL INSPECTION, FUMIGATION, PEST CONTROL AND LABORATORY TESTING AND CALIBRATION

This certificate may be found on the ABS QE Website (www.abs-qe.com). For certificates issued in the People's Republic of China information may also be verified on the CNCA website (www.cnca.gov.cn).

Certificate No: 52229
Certification Date: 30 July 2015
Effective Date: 14 July 2023
Expiration Date: 24 July 2026
Revision Date: 20 July 2023

Dominic Townsend, President



Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and is contingent upon prompt written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.

ABS Quality Evaluations, Inc. 1701 City Plaza Drive, Spring, TX 77389, U.S.A
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation

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ABS Quality Evaluations

ISO 9001:2015

Certificate Of Conformance

ANNEX

Certificate No: 52229

SGS (Thailand) Ltd.

At Below Facilities:

Facility: 100 Nanglinchee Road, Chongnonsee, Yannawa,
Bangkok 10120
Thailand

Activity: Management of QMS, Inspection Service

Facility: Sriracha Office
144, 146 Sriracha Nakorn 1 Road,
T. Sriracha, A. Sriracha,
Chonburi 20110
Thailand

Activity: Inspection, Fumigation & Pest Control.

Facility: Hat Yai Branch
57, 59 and 61 Soi 10 Phelkasem Road,
T. Hat Yai, A. Hat Yai,
Songkhla 90110
Thailand

Activity: Inspection, Fumigation, Pest Control & Testing.

Facility: Rayong Branch
1/209 and 1/211 Moo 1 T. Ban Chang,
A. Ban Chang,
Rayong 21130
Thailand

Activity: Inspection & Testing.

Facility: Nakhonratchasima Office
1340/46 Suranarai Road., T. Nai-Muang,
A. Muang Nakhonratchasima,
30000
Thailand

Activity: Inspection & Fumigation.

Facility: Rama III Branch, Laboratory Services
10,10/1-4, 12 Rama III Road, Soi 59,
Chongnonsee, Yannawa,
Bangkok 10120
Thailand

Activity: Testing



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Certificate Of Conformance

ANNEX

Certificate No: 52229

SGS (Thailand) Ltd.

At Below Facilities:

Facility: SGS (Cambodia) Limited
No.1076 A-D, Street 371, Phum Trea II, Sangkat Steung Meanchey,
Khan Meanchey, Phnom Penh,
Activity: Cambodia
Inspection.

Facility: Rama III Branch - Soft Line & Hard goods Laboratory Services
1025/1 Soi Rama III 61, Rama III Road
Chongnonsee, Yannawa
Bangkok 10120
Thailand
Activity: Testing



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

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