

ภาคผนวก ค

ใบรายงานผลวิเคราะห์

คุณภาพน้ำสระว่ายนํ้า



Analysis Report BK2601395



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2601395**
Report Number : BK2601395-AA
Date Received : Jan 16, 2026
Date Reported : Jan 27, 2026
Date Analysis Commenced : Jan 17, 2026
No. of samples received : 4
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Tuanjai T.

Tuanjai Thangklang
Lab Manager - Microbiology

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

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LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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MISCELLANEOUS

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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Analysis Report BK2601395

Report Number : BK2601395-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2601395-001	สระที่ 1 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2601395-002	สระที่ 1 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2601395-003	สระที่ 2 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2601395-004	สระที่ 2 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC072B	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC073A	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC080A	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC081A	Bangkok	In-house method STM No. 01-054 in connection with Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9213 B and FDA BAM Online 2016 (Chapter 12)

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Analysis Report BK2601395

Report Number : BK2601395-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 1 : บริเวณสวนต้น

สระที่ 1 : บริเวณสวนลึก

สระที่ 2 : บริเวณสวนต้น

(Matrix: WATER)

Sampling Date								Jan 16, 2026 09:30 AM	Jan 16, 2026 09:32 AM	Jan 16, 2026 09:34 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2601395-001	BK2601395-002	BK2601395-003
						MOPH 1/2550	----	Result	Result	Result
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	<1.1	<1.1
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	Not Detected *	Not Detected *
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected

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 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
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Analysis Report BK2601395

Report Number : BK2601395-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 2 : บริเวณส่วนลึก

(Matrix: WATER)

								Sampling Date	Jan 16, 2026 09:36 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2601395-004	-----	-----	
						MOPH 1/2550	----	Result	----	----	
Microbiological Parameters											
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	----	----	
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	----	----	
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	----	----	
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	----	----	

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

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- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
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LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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Analysis Report BK2604039



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2604039**
Report Number : BK2604039-AA
Date Received : Feb 04, 2026
Date Reported : Feb 14, 2026
Date Analysis Commenced : Feb 05, 2026
No. of samples received : 4
Temperature : 4.0 °C
Sampled by : Panupong Homewong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Sithichok

Sithichok Thong-Nguen
Scientist (3)

Terms and Conditions

GENERAL

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Analysis Report BK2604039

Report Number : BK2604039-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2604039-001	สระที่ 1 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2604039-002	สระที่ 1 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2604039-003	สระที่ 2 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2604039-004	สระที่ 2 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC072B	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC073A	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC080A	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC081A	Bangkok	In-house method STM No. 01-054 in connection with Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9213 B and FDA BAM Online 2016 (Chapter 12)

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2604039

Report Number : BK2604039-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 1 : บริเวณสวนต้น

สระที่ 1 : บริเวณสวนลึก

สระที่ 2 : บริเวณสวนต้น

(Matrix: WATER)

Sampling Date								Feb 04, 2026 01:05 PM	Feb 04, 2026 01:07 PM	Feb 04, 2026 01:10 PM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2604039-001	BK2604039-002	BK2604039-003
						MOPH 1/2550	----	Result	Result	Result
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	<1.1	<1.1
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	Not Detected *	Not Detected *
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
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 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
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 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
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DEFINITIONS

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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Analysis Report BK2604039

Report Number : BK2604039-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 2 : บริเวณส่วนลึก

(Matrix: WATER)

Sampling Date								Feb 04, 2026 01:12 PM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2604039-004	-----	-----
						MOPH 1/2550	----	Result	----	----
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	----	----
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	----	----
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	----	----
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	----	----

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2608013



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2608013**
Report Number : BK2608013-AA
Date Received : Mar 04, 2026
Date Reported : Mar 14, 2026
Date Analysis Commenced : Mar 05, 2026
No. of samples received : 4
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Sithichok

Sithichok Thong-Nguen
Scientist (3)

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000

Terms and Conditions

GENERAL

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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

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LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
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- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

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Analysis Report BK2608013

Report Number : BK2608013-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2608013-001	สระที่ 1 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2608013-002	สระที่ 1 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2608013-003	สระที่ 2 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2608013-004	สระที่ 2 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC072B	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC073A	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC080A	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC081A	Bangkok	In-house method STM No. 01-054 in connection with Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9213 B and FDA BAM Online 2016 (Chapter 12)

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 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
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 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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Analysis Report BK2608013

Report Number : BK2608013-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 1 : บริเวณส่วนต้น

สระที่ 1 : บริเวณส่วนลึก

สระที่ 2 : บริเวณส่วนต้น

(Matrix: WATER)

Sampling Date								Mar 04, 2026 09:40 AM	Mar 04, 2026 09:42 AM	Mar 04, 2026 09:44 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2608013-001	BK2608013-002	BK2608013-003
						MOPH 1/2550	----	Result	Result	Result
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	<1.1	<1.1
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	Not Detected *	Not Detected *
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected

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- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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Analysis Report BK2608013

Report Number : BK2608013-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 2 : บริเวณส่วนลึก

(Matrix: WATER)

Sampling Date								Mar 04, 2026 09:46 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2608013-004	-----	-----
						MOPH 1/2550	----	Result	----	----
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	----	----
MC073A	Bangkok	<i>Escherichia coli</i>	----	----	in 100mL	Not Detected	----	Not Detected	----	----
MC080A	Bangkok	<i>Pseudomonas aeruginosa</i>	----	----	in 100mL	Not Detected	----	Not Detected *	----	----
MC081A	Bangkok	<i>Staphylococcus aureus</i>	----	----	in 100mL	Not Detected	----	Not Detected	----	----

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
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Analysis Report BK2611125



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2611125**
Report Number : BK2611125-AA
Date Received : Apr 22, 2026
Date Reported : May 04, 2026
Date Analysis Commenced : Apr 23, 2026
No. of samples received : 4
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Tuanjai Thangklang
Lab Manager - Microbiology

Terms and Conditions

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Analysis Report BK2611125

Report Number : BK2611125-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2611125-001	สระที่ 1 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2611125-002	สระที่ 1 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2611125-003	สระที่ 2 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2611125-004	สระที่ 2 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC072B	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC073A	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC080A	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC081A	Bangkok	In-house method STM No. 01-054 in connection with Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9213 B and FDA BAM Online 2016 (Chapter 12)

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- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
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DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2611125

Report Number : BK2611125-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 1 : บริเวณสวนต้น

สระที่ 1 : บริเวณสวนลึก

สระที่ 2 : บริเวณสวนต้น

(Matrix: WATER)

Sampling Date								Apr 22, 2026 11:00 AM	Apr 22, 2026 11:02 AM	Apr 22, 2026 11:04 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2611125-001	BK2611125-002	BK2611125-003
						MOPH 1/2550	----	Result	Result	Result
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	<1.1	<1.1
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	Not Detected *	Not Detected *
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected

Terms and Conditions

GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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Analysis Report BK2611125

Report Number : BK2611125-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 2 : บริเวณส่วนลึก

(Matrix: WATER)

Sampling Date

Apr 22, 2026 11:06 AM

								Sampling Date	Apr 22, 2026 11:06 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2611125-004	-----	-----	
						MOPH 1/2550	----	Result	----	----	
Microbiological Parameters											
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	----	----	
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	----	----	
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	----	----	
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	----	----	

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

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Analysis Report BK2615312



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2615312**
Report Number : BK2615312-AA
Date Received : May 05, 2026
Date Reported : May 15, 2026
Date Analysis Commenced : May 06, 2026
No. of samples received : 4
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Sithichok

Sithichok Thong-Nguen
Scientist (3)

Terms and Conditions

GENERAL

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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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Analysis Report BK2615312

Report Number : BK2615312-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2615312-001	สระที่ 1 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2615312-002	สระที่ 1 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2615312-003	สระที่ 2 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2615312-004	สระที่ 2 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC072B	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC073A	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC080A	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC081A	Bangkok	In-house method STM No. 01-054 in connection with Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9213 B and FDA BAM Online 2016 (Chapter 12)

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Analysis Report BK2615312

Report Number : BK2615312-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 1 : บริเวณสวนต้น

สระที่ 1 : บริเวณสวนลึก

สระที่ 2 : บริเวณสวนต้น

(Matrix: WATER)

Sampling Date								May 05, 2026 01:40 PM	May 05, 2026 01:42 PM	May 05, 2026 01:45 PM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2615312-001	BK2615312-002	BK2615312-003
						MOPH 1/2550	----	Result	Result	Result
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	9.2	3.6	<1.1
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Detected	Detected	Not Detected
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	Not Detected *	Not Detected *
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

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- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2615312

Report Number : BK2615312-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 2 : บริเวณส่วนลึก

(Matrix: WATER)

Sampling Date

May 05, 2026 01:47 PM

								Sampling Date	May 05, 2026 01:47 PM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2615312-004	-----	-----	
						MOPH 1/2550	----	Result	----	----	
Microbiological Parameters											
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	----	----	
MC073A	Bangkok	<i>Escherichia coli</i>	----	----	in 100mL	Not Detected	----	Not Detected	----	----	
MC080A	Bangkok	<i>Pseudomonas aeruginosa</i>	----	----	in 100mL	Not Detected	----	Not Detected *	----	----	
MC081A	Bangkok	<i>Staphylococcus aureus</i>	----	----	in 100mL	Not Detected	----	Not Detected	----	----	

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

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 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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Analysis Report BK2619092



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2619092**
Report Number : BK2619092-AA
Date Received : Jun 04, 2026
Date Reported : Jun 15, 2026
Date Analysis Commenced : Jun 05, 2026
No. of samples received : 4
Temperature : 3.6 °C
Sampled by : Julladach Warin

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Tuanjai Thangklang
Lab Manager - Microbiology

Terms and Conditions

GENERAL

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- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2619092

Report Number : BK2619092-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2619092-001	สระที่ 1 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2619092-002	สระที่ 1 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2619092-003	สระที่ 2 : บริเวณสวนต้น	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
BK2619092-004	สระที่ 2 : บริเวณสวนลึก	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC072B	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 B
MC073A	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9221 F
MC080A	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC081A	Bangkok	In-house method STM No. 01-054 in connection with Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023. Part 9213 B and FDA BAM Online 2016 (Chapter 12)

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2619092

Report Number : BK2619092-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 1 : บริเวณสวนต้น

สระที่ 1 : บริเวณสวนลึก

สระที่ 2 : บริเวณสวนต้น

(Matrix: WATER)

Sampling Date								Jun 04, 2026 11:50 AM	Jun 04, 2026 11:52 AM	Jun 04, 2026 11:55 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2619092-001	BK2619092-002	BK2619092-003
						MOPH 1/2550	----	Result	Result	Result
Microbiological Parameters										
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	<1.1	<1.1
MC073A	Bangkok	<i>Escherichia coli</i>	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected
MC080A	Bangkok	<i>Pseudomonas aeruginosa</i>	----	----	in 100mL	Not Detected	----	Not Detected *	Not Detected *	Not Detected *
MC081A	Bangkok	<i>Staphylococcus aureus</i>	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	Not Detected

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
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FEES AND PAYMENT

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2619092

Report Number : BK2619092-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระที่ 2 : บริเวณส่วนลึก

(Matrix: WATER)

Sampling Date

Jun 04, 2026 11:57 AM

								Sampling Date	Jun 04, 2026 11:57 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2619092-004	-----	-----	
						MOPH 1/2550	----	Result	----	----	
Microbiological Parameters											
MC072B	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	----	----	
MC073A	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	----	----	
MC080A	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *	----	----	
MC081A	Bangkok	Staphylococcus aureus	----	----	in 100mL	Not Detected	----	Not Detected	----	----	

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.

คุณภาพน้ำเสีย



Analysis Report BK2601396



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2601396**
Report Number : BK2601396-AA
Date Received : Jan 16, 2026
Date Reported : Jan 23, 2026
Date Analysis Commenced : Jan 17, 2026
No. of samples received : 7
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Siriluk P.

Siriluk Bunnak
Section Head

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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Analysis Report BK2601396

Report Number : BK2601396-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2601396-001	ปอดตรวจสอบคุณภาพน้ำทิ้งก่อนปล่อยออกสู่ภายนอก โครงการ	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2601396-002	สถานี A : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2601396-003	สถานี A : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2601396-004	สถานี B : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2601396-005	สถานี B : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2601396-006	สถานี C : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2601396-007	สถานี C : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated

Terms and Conditions

GENERAL

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 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2601396

Report Number : BK2601396-AA



TESTING
No.0009

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based onStandard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2601396

Report Number : BK2601396-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

บ่อตรวจสอบคุณภาพน้ำทั้งก่อน
ปล่อยออกสู่ภายนอกโครงการ

สถานี A : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี A : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date								Jan 16, 2026 09:40 AM	Jan 16, 2026 09:55 AM	Jan 16, 2026 10:00 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2601396-001	BK2601396-002	BK2601396-003
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	8.3	151	19.9
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	4	99	6
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.9	7.6	7.6
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	4.4 *	<0.5 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	55.4	111	110
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	404	400	388
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	6	170	9

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
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LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
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MISCELLANEOUS

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- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2601396

Report Number : BK2601396-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี B : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี B : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

สถานี C : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

Sampling Date								Jan 16, 2026 09:45 AM	Jan 16, 2026 09:50 AM	Jan 16, 2026 10:10 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2601396-004	BK2601396-005	BK2601396-006
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	89.5	48.8	66.2
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	10	7	10
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.5	7.6	7.6
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	8.0 *	4.8 *	7.2 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	90.7	89.9	101
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	408	420	384
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	19	14	18

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
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- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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Analysis Report BK2601396

Report Number : BK2601396-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี C : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Jan 16, 2026 10:05 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2601396-007	----	----
						MNRE 2567 Type A	----	Result	----	----
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	60.0	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	7	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.5	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	8.6 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	96.0	----	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	408	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	11	----	----

Guideline: MNRE 2567 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

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Analysis Report BK2604040



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2604040**
Report Number : BK2604040-AA
Date Received : Feb 04, 2026
Date Reported : Feb 11, 2026
Date Analysis Commenced : Feb 05, 2026
No. of samples received : 7
Temperature : 4.0 °C
Sampled by : Panupong Homewong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Siriluk Bunnak
Section Head

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- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2604040

Report Number : BK2604040-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2604040-001	ปอดตรวจสอบคุณภาพน้ำทิ้งก่อนปล่อยออกสู่ภายนอก โครงการ	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2604040-002	สถานี A : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2604040-003	สถานี A : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2604040-004	สถานี B : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2604040-005	สถานี B : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2604040-006	สถานี C : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2604040-007	สถานี C : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
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Analysis Report BK2604040

Report Number : BK2604040-AA



TESTING
No.0009

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based onStandard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Terms and Conditions

GENERAL

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PROVISION OF SERVICES

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
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MISCELLANEOUS

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- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2604040

Report Number : BK2604040-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

บ่อตรวจสอบคุณภาพน้ำทั้งก่อน
ปล่อยออกสู่ภายนอกโครงการ

สถานี A : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี A : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date								Feb 04, 2026 01:20 PM	Feb 04, 2026 01:35 PM	Feb 04, 2026 01:40 PM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2604040-001	BK2604040-002	BK2604040-003
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	27.3	204	64.2
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	4	82	12
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	8.0	7.7	7.7
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	1.0 *	9.6 *	8.0 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	65.4	104	99.8
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	308	276	276
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	9	324	41

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
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MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2604040

Report Number : BK2604040-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี B : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี B : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

สถานี C : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

Sampling Date								Feb 04, 2026 01:25 PM	Feb 04, 2026 01:30 PM	Feb 04, 2026 01:45 PM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2604040-004	BK2604040-005	BK2604040-006
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	132	76.4	86.5
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	10	8	9
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.6	7.7	7.6
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	12.0 *	11.6 *	11.2 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	87.0	98.7	99.1
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	324	264	304
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	20	17	16

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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Analysis Report BK2604040

Report Number : BK2604040-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี C : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Feb 04, 2026 01:50 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2604040-007	----	----
						MNRE 2567 Type A	----	Result	----	----
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	114	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	6	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.6	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	9.6 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	95.7	----	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	348	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	12	----	----

Guideline: MNRE 2567 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

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 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
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DEFINITIONS

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2608014



TESTING
No.0009

Client : Atmozlandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmozlandprao 15 Juristic Person

Work Order : **BK2608014**
Report Number : BK2608014-AA
Date Received : Mar 04, 2026
Date Reported : Mar 11, 2026
Date Analysis Commenced : Mar 05, 2026
No. of samples received : 7
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Nanthawadee Somboon
Specialist 2

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
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- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2608014

Report Number : BK2608014-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2608014-001	ปอดตรวจสอบคุณภาพน้ำทิ้งก่อนปล่อยออกสู่ภายนอก โครงการ	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2608014-002	สถานี A : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2608014-003	สถานี A : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2608014-004	สถานี B : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2608014-005	สถานี B : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2608014-006	สถานี C : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2608014-007	สถานี C : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated

Terms and Conditions

GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2608014

Report Number : BK2608014-AA



TESTING
No.0009

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based onStandard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2608014

Report Number : BK2608014-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

บ่อตรวจสอบคุณภาพน้ำทั้งก่อน
ปล่อยออกสู่ภายนอกโครงการ

สถานี A : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี A : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Mar 04, 2026 09:55 AM

Mar 04, 2026 10:15 AM

Mar 04, 2026 10:10 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2608014-001	BK2608014-002	BK2608014-003
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	16.4	17.4	15.6
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	6	12	10
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	8.2	7.8	7.9
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	2.6 *	11.6 *	8.8 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	64.7	106	99.7
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	292	320	300
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	13	20	15

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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Analysis Report BK2608014

Report Number : BK2608014-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี B : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี B : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

สถานี C : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

Sampling Date								Mar 04, 2026 10:05 AM	Mar 04, 2026 10:00 AM	Mar 04, 2026 10:25 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2608014-004	BK2608014-005	BK2608014-006
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	116	33.9	114
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	9	6	6
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	8.1	8.2	8.2
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	11.2 *	12.0 *	9.2 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	92.1	41.5	83.1
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	328	308	380
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	20	15	23

Terms and Conditions

GENERAL

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2608014

Report Number : BK2608014-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี C : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Mar 04, 2026 10:20 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2608014-007	-----	-----
						MNRE 2567 Type A	----	Result	----	----

Chemical Parameters

EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	122	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	6	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	8.2	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	10.8 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	97.1	----	----

Physical and Aggregate Properties

EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	360	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	19	----	----

Guideline: MNRE 2567 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

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TERMINATION

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Analysis Report BK2611126



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2611126**
Report Number : BK2611126-AA
Date Received : Apr 22, 2026
Date Reported : Apr 29, 2026
Date Analysis Commenced : Apr 23, 2026
No. of samples received : 7
Temperature : 2.0 °C
Sampled by : Pichai Boonyong (๖-204-๓-0082)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Siriluk Bunnak
Section Head
๖-204-๓-0013

Kanokkorn Anek
Assistant General Manager
๖-204-๓-0004

Terms and Conditions

GENERAL

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Analysis Report BK2611126

Report Number : BK2611126-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2611126-001	ปอดตรวจสอบคุณภาพน้ำทิ้งก่อนปล่อยออกสู่ภายนอก โครงการ	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2611126-002	สถานี A : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2611126-003	สถานี A : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2611126-004	สถานี B : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2611126-005	สถานี B : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2611126-006	สถานี C : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2611126-007	สถานี C : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H2SO4, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
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PROVISION OF SERVICES

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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2611126

Report Number : BK2611126-AA



TESTING
No.0009

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Norg (C)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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Analysis Report BK2611126

Report Number : BK2611126-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

บ่อตรวจสอบคุณภาพน้ำทั้งก่อน
ปล่อยออกสู่ภายนอกโครงการ

สถานี A : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี A : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Apr 22, 2026 11:10 AM

Apr 22, 2026 11:30 AM

Apr 22, 2026 11:25 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2611126-001	BK2611126-002	BK2611126-003
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	30.6	116	85.5
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	5	9	9
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	8.0	7.7	7.6
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	1.2 *	8.8 *	10.4 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	46.9	74.9	70.0
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	336	304	316
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	10	18	14

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GENERAL

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2611126

Report Number : BK2611126-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี B : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี B : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

สถานี C : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

Sampling Date								Apr 22, 2026 11:20 AM	Apr 22, 2026 11:15 AM	Apr 22, 2026 11:35 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2611126-004	BK2611126-005	BK2611126-006
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	155	128	104
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	17	10	9
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.7	7.8	7.8
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	10.0 *	9.2 *	6.8 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	64.6	54.5	68.4
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	336	324	344
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	36	32	19

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
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Analysis Report BK2611126

Report Number : BK2611126-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี C : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Apr 22, 2026 11:40 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2611126-007	_____	_____
						MNRE 2567 Type A	----	Result	----	----
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	89.5	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	8	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.9	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	6.8 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	57.0	----	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	368	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	16	----	----

Guideline: MNRE 2567 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

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- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2615313



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2615313**
Report Number : BK2615313-AA
Date Received : May 05, 2026
Date Reported : May 12, 2026
Date Analysis Commenced : May 06, 2026
No. of samples received : 5
Temperature : 2.0 °C
Sampled by : Pichai Boonyong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Siriluk P.

Siriluk Bunnak
Section Head

Terms and Conditions

GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

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Analysis Report BK2615313

Report Number : BK2615313-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2615313-001	ปอดตรวจสอบคุณภาพน้ำทิ้งก่อนปล่อยออกสู่ภายนอก โครงการ	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2615313-003	สถานี A : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2615313-005	สถานี B : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2615313-006	สถานี C : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2615313-007	สถานี C : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x 500mL Plastic Bottle, 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
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 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2615313

Report Number : BK2615313-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

บ่อตรวจสอบคุณภาพน้ำทั้งก่อน
ปล่อยออกสู่ภายนอกโครงการ

สถานี A : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

สถานี B : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

May 05, 2026 02:00 PM

May 05, 2026 02:30 PM

May 05, 2026 02:20 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2615313-001	BK2615313-003	BK2615313-005
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	3.0	68.1	56.9
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	5	6
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.8	7.3	7.4
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	10.8 *	11.2 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	16.8	68.0	71.1
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	228	268	308
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	5	20	14

Terms and Conditions

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2615313

Report Number : BK2615313-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี C : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี C : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

May 05, 2026 02:15 PM

May 05, 2026 02:10 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2615313-006	BK2615313-007	-----
						MNRE 2567 Type A	----	Result	Result	----
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	97.9	71.1	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	6	5	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.3	7.6	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	10.0 *	2.8 *	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	79.8	62.1	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	312	304	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	18	30	----

Guideline: MNRE 2567 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

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Analysis Report BK2619093



TESTING
No.0009

Client : Atmoslandprao 15 Juristic Person
477 Lat Phrao 15, Chom Phon, Chatuchak, Bangkok, Thailand, 10900
P/O : ---
Project : EIA
Project Location: Atmoslandprao 15 Juristic Person

Work Order : **BK2619093**
Report Number : BK2619093-AA
Date Received : Jun 04, 2026
Date Reported : Jun 11, 2026
Date Analysis Commenced : Jun 05, 2026
No. of samples received : 7
Temperature : 3.6 °C
Sampled by : Julladach Warin

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Signatories

Siriluk P.

Siriluk Bunnak
Section Head

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2619093

Report Number : BK2619093-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
BK2619093-001	ปอดตรวจสอบคุณภาพน้ำทิ้งก่อนปล่อยออกสู่ภายนอก โครงการ	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2619093-002	สถานี A : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2619093-003	สถานี A : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2619093-004	สถานี B : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2619093-005	สถานี B : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2619093-006	สถานี C : ปอดปรับสภาพน้ำของระบบบำบัดน้ำเสีย : ก่อนบำบัด	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
BK2619093-007	สถานี C : ปอดสูบน้ำทิ้งของระบบบำบัดน้ำเสียแต่ละชุด : หลังบำบัด	----	----	1x Plastic Bottle (500 ml), 1x 1L Plastic Bottle, 1x Plastic bottle - Preserved with H ₂ SO ₄ , 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

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Analysis Report BK2619093

Report Number : BK2619093-AA



TESTING
No.0009

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based onStandard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (D)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B and part 4500 - O (G)
EN0048	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
EN0100	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

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 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2619093

Report Number : BK2619093-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

บ่อตรวจสอบคุณภาพน้ำทั้งก่อน
ปล่อยออกสู่ภายนอกโครงการ

สถานี A : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี A : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Jun 04, 2026 11:33 AM

Jun 04, 2026 11:46 AM

Jun 04, 2026 11:43 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2619093-001	BK2619093-002	BK2619093-003
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	6.7	105	58.6
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	14	10
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	8.0	7.8	7.6
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	0.6 *	9.6 *	5.2 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	14.1	78.1	70.4
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	308	332	304
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	5	41	8

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
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- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited at ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
 - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
 - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
 - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
 - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
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- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



Analysis Report BK2619093

Report Number : BK2619093-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี B : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

สถานี B : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

สถานี C : บ่อปรับสภาพน้ำของ
ระบบบำบัดน้ำเสีย : ก่อนบำบัด

Sampling Date								Jun 04, 2026 11:39 AM	Jun 04, 2026 11:36 AM	Jun 04, 2026 11:27 AM
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2619093-004	BK2619093-005	BK2619093-006
						MNRE 2567 Type A	----	Result	Result	Result
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	103	73.3	84.5
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	10	7	8
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.8	7.7	7.8
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	6.4 *	6.0 *	3.4 *
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	69.3	64.1	51.9
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	404	380	320
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	20	12	17

Terms and Conditions

GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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Analysis Report BK2619093

Report Number : BK2619093-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

(Matrix: WATER)

Client Sample ID

สถานี C : บ่อสูบน้ำทิ้งของ
ระบบบำบัดน้ำเสียแต่ละชุด :
หลังบำบัด

Sampling Date

Jun 04, 2026 11:30 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		BK2619093-007	----	----
						MNRE 2567 Type A	----	Result	----	----
Chemical Parameters										
EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	60.3	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	5	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5.5-9	----	7.8	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	3.4 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	48.4	----	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	≤1000	----	348	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	14	----	----

Guideline: MNRE 2567 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A

Comment: Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- LOD : Limit of Detection
 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----

Terms and Conditions

GENERAL

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 - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
 - iii) solely for the benefit of the Client, its officers and employees; and
 - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any right to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.

ภาคผนวก ง

ใบรับรองการสอบเทียบเครื่องมือ



right solutions.
right partner.

รายการเครื่องมือที่ใช้ในการวิเคราะห์ / ทดสอบ

Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)
Water Lab	Total Coliform	Autoclave	BKK_ML0041	4-Mar-25	4-Sep-26	18
Water Lab	Total Coliform	Incubator	BKK_ML0231	21-Aug-25	21-Aug-26	12
Water Lab	Total Coliform	Hot Air Oven	BKK_ML0013	9-Oct-25	9-Apr-27	18
Water Lab	<i>Escherichia coli</i>	Autoclave	BKK_ML0041	4-Mar-25	4-Sep-26	18
Water Lab	<i>Escherichia coli</i>	Incubator	BKK_ML0231	21-Aug-25	21-Aug-26	12
Water Lab	<i>Escherichia coli</i>	Hot Air Oven	BKK_ML0013	9-Oct-25	9-Apr-27	18
Water Lab	<i>Escherichia coli</i>	Water Bath	BKK_ML0056	4-Feb-26	4-Feb-27	12
Water Lab	<i>Pseudomonas aeruginosa</i>	Autoclave	BKK_ML0041	4-Mar-25	4-Sep-26	18
Water Lab	<i>Pseudomonas aeruginosa</i>	Incubator	BKK_ML0231	21-Aug-25	21-Aug-26	12
Water Lab	<i>Pseudomonas aeruginosa</i>	Water Bath	BKK_ML0054	3-Dec-25	3-Dec-26	12
Water Lab	<i>Pseudomonas aeruginosa</i>	Hot Air Oven	BKK_ML0013	9-Oct-25	9-Apr-27	18
Water Lab	<i>Staphylococcus aureus</i>	Autoclave	BKK_ML0041	4-Mar-25	4-Sep-26	18
Water Lab	<i>Staphylococcus aureus</i>	Incubator	BKK_ML0231	21-Aug-25	21-Aug-26	12
Water Lab	<i>Staphylococcus aureus</i>	Hot Air Oven	BKK_ML0013	9-Oct-25	9-Apr-27	18
Water Lab	pH at 25 °C	pH meter	BKK_EN0342	9-Oct-25	9-Oct-26	12
Water Lab	Sulfide	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Sulfide	Chamber (Cooling Room)	BKK_EN0167	4-Jun-25	4-Dec-26	18
Water Lab	Total Kjeldahl Nitrogen	Digestion Unit	BKK_EN0366	2-Mar-26	2-Mar-27	12
Water Lab	Total Kjeldahl Nitrogen	Discrete analyzer	BKK_EN0438	3-Sep-25	3-Sep-26	12
Water Lab	BOD	DO Meter	BKK_EN0017	20-May-25	20-Nov-26	18
Water Lab	BOD	Incubator	BKK_EN0305	23-Dec-25	23-Dec-26	12
Water Lab	BOD	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Oil & Grease	Electronic Top-Loading Balance	BKK_EN0003	17-Jul-25	17-Jul-26	12
Water Lab	Oil & Grease	Water Bath	BKK_EN0439	9-Oct-25	9-Oct-26	12
Water Lab	Total Dissolved Solids 180°C	Electronic Top-Loading Balance	BKK_EN0003	17-Jul-25	17-Jul-26	12
Water Lab	Total Dissolved Solids 180°C	Oven	BKK_EN0425	6-Oct-25	6-Oct-26	12
Water Lab	Total Suspended Solids	Electronic Top-Loading Balance	BKK_EN0003	17-Jul-25	17-Jul-26	12
Water Lab	Total Suspended Solids	Oven	BKK_EN0425	6-Oct-25	6-Oct-26	12



Metrology

SCI ECO Services Company Limited

33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.

Saraburi Tel : +66 3627 3096 Fax : +66 3627 3100

Bangkok Tel : +668 9205 6851 , +669 8247 2360
Website : www.scieco.co.th E-Mail : calibrate@scg.com



Certificate No. T250353

Page 1 of 4

Certificate of Calibration

Equipment : Autoclave

Manufacturer : TOMY

Model : SX-700

Serial No. : 48134190

Customer Code : BKK_ML0041

ID No. : T7725A3

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,
Khet Suan Luang, Bangkok 10250

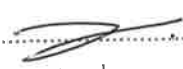
Customer Location : Washing Room

Date of Receipt : 26 February 2025

Calibrated By : Boonchai Suriyawong (Site Calibration Manager)

Approved By :  / Sujjar Naknakred (Site Calibration Manager)

Date of Issue : 10 MAR 2025

REVIEW BY	Sithichok
APPROVED BY	
NEXT CAL. DATE	04/09/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrology.

Certificate No. T250353

Page 2 of 4

Calibration Report

Equipment : Autoclave
Date of Calibration : 4 March 2025
Environment : Temperature : 22.2-25.4 °C
Line Voltage : 221.1-224.7 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert 3 standard temperature recorder into its chamber and test according to WI-T23 inhouse method.(based on BS 2646-1 : 2021)

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Standard No.	Certificate No.	Due Date
1. Temperature recorder	RTD	T210	T242028	11 December 2025
2. Temperature recorder	RTD	T211	T242029	11 December 2025
3. Temperature recorder	RTD	T212	T242030	11 December 2025

3. This certificate is traceable to :

National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

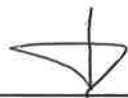
Equipment Description :

Pressure Indicator 0.11-0.12 MPa At 121 °C Holding time 20 minute

5. Adjustment :

(X) without adjustment

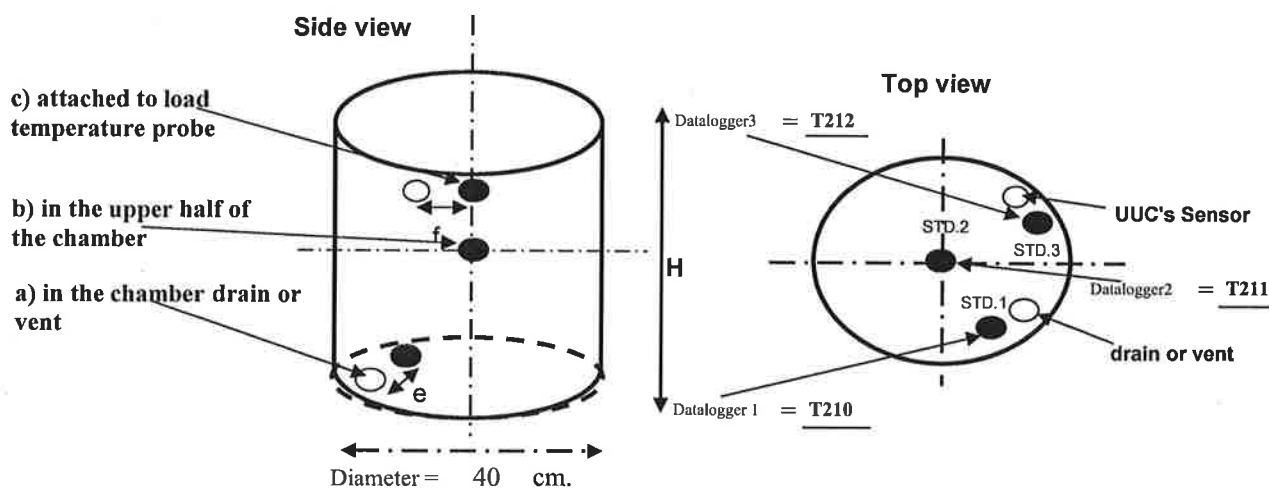
() after adjustment

Approved By. 

Certificate No. T250353

Page 3 of 4

Calibration Report



Remark :

Size of Installed Standard sensor STD.1 : Distance the chamber drain or vent $e \leq 10$ cm. (less than or be equal to 10 cm.)

Size of Installed Standard sensor STD.2 : Geometric Center (upper half of the chamber)

Size of Installed Standard sensor STD.3 : Distance UUC's Sensor $f = 2$ cm.

Measurement Results :

Calibration Point	Average Standard Reading at each position (°C)		
	T210	T211	T212
121	121.2	121.1	121.1

Autoclave			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uniformity (±°C)	Uncertainty (±°C)	Coverage Factor k
	Min , Max	Average					
121	-	121	121.2	0.1	0.1	0.65	2.00

* The quoted uncertainty exclude "uniformity"

The calibration result apply only the above calibrated item.

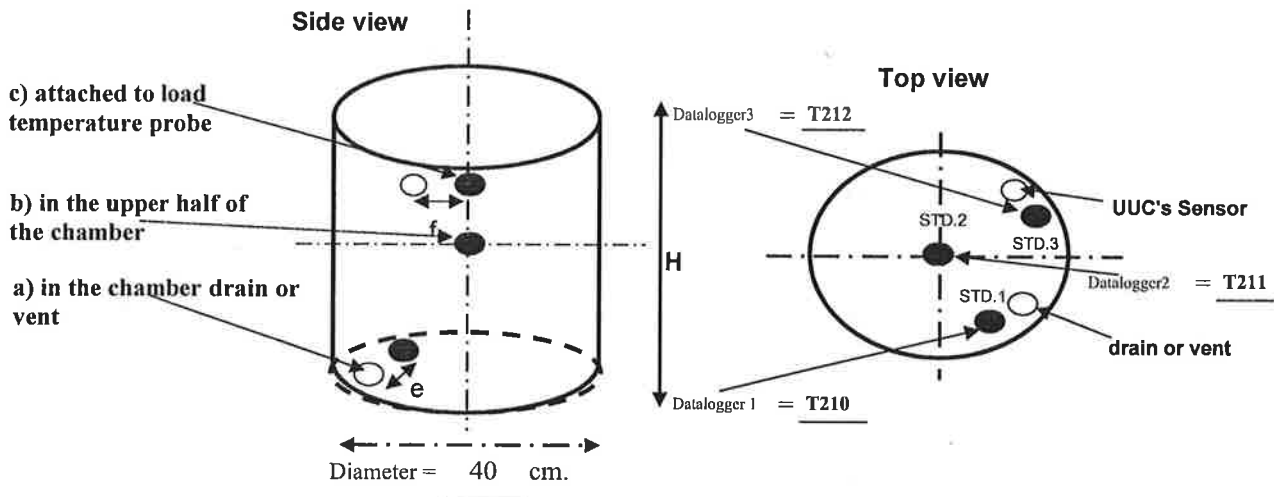
The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate

Approved By. _____

Calibration Report



Remark :

Size of Installed Standard sensor STD.1 : Distance the chamber drain or vent $e \leq 10$ cm. (less than or be equal to 10 cm.)

Size of Installed Standard sensor STD.2 : Geometric Center (upper half of the chamber)

Size of Installed Standard sensor STD.3 : Distance UUC's Sensor $f = 2$ cm.

Measurement Results :

Calibration Point	Average Standard Reading at each position (°C)		
	T210	T211	T212
121	121.18	121.12	121.13

Autoclave			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (± °C)	Uniformity (± °C)	Uncertainty (± °C)	Coverage Factor k
	Min , Max	Average					
121	-	121	121.16	0.10	0.10	0.65	2.00

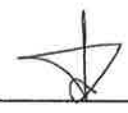
* The quoted uncertainty exclude "uniformity"

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate

Approved By. 



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert. No.: 25TM1235

Page : 1 of 3

Equipment : Incubator
Manufacturer : Memmert
Model : IPP750eco
Serial No. : V821.0172
ID No. : BKK_ML0231

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang ,
Bangkok 10250 Thailand

Location : Incubation & Microbiological Reading

Received Order : 21 August 2025
Calibration Date : 21 August 2025
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V

Calibrated by : Khit Ruttanaprapachai

Approved by :

Kunchit

Approved Signatory

- () Chakrit Waewwanjua
() Suwit Imjai
(✓) Kunchit Promprat

Issue Date : 25 August 2025

REVIEW BY Sithichok T.
APPROVED BY
NEXT CAL DATE..... 21/08/26

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Incubator
 Condition As-Received : Used Item
 Reference : 2508-0459OC-2

Cert. No.: 25TM1235
 Page : 2 of 3

Procedure Used :-

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Resistance Temperature Detector (RTD).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY44073381	25LM82	TPA	17 May 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This measurement result is traceable to the International System of Unit maintained through :

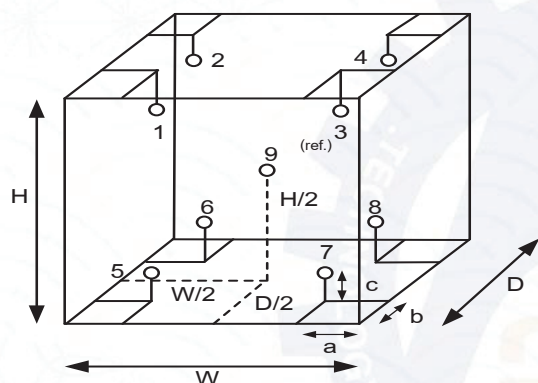
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Fresh air setting : Not Available

Environment during calibration		
	Beginning	Finished
Temp. (°C)	21	20
REL.Humid. (%)	62	65
AC Supply (Volt)	222	221



Position :	Ref. Std. ID No.:
1	25-01RTD-01
2	25-01RTD-02
3	25-01RTD-03
4	25-01RTD-04
5	25-01RTD-05
6	25-01RTD-06
7	25-01RTD-07
8	25-01RTD-08
9 (ref.)	25-01RTD-09

Probe Installation Details :

a = 10 cm
 b = 10 cm
 c = 10 cm

Dimension of Chamber :

D = 0.60 m
 W = 1.0 m
 H = 1.2 m
 Capacity = 0.75 m³



Equipment : Incubator
Condition As-Received : Used Item
Reference : 2508-0459OC-2
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Not Available

Cert. No.: 25TM1235

Page : 3 of 3

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor <i>k</i>
35.0	35.0	35.0	0.12	0.37	0.43	2
37.0	37.0	37.0	0.15	0.47	0.49	2
41.5	41.5	41.5	0.13	0.79	0.84	2

Calibration Point (°C)	Measured Temperature (°C)									Uncertainty (± °C)
	Position									
	1	2	3	4	5	6	7	8	9 (ref.)	
35.0	34.834	34.929	34.924	34.849	34.856	34.954	35.002	35.002	35.127	0.30
37.0	36.940	37.065	37.010	36.921	36.883	36.973	37.043	37.045	37.235	0.31
41.5	41.641	41.838	41.742	41.484	41.249	41.427	41.466	41.495	41.926	0.34

Average* : The average of 30 values in each position.

Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.

Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.

UUC* : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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Certificate of Calibration

Cert. No.: 25TM525

Page : 1 of 3

Equipment : Hot Air Oven
Manufacturer : Binder
Model : ED 240/E2
Serial No. : 00-15533
ID No. : BKK_ML0013

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand
Location : Media Preparation Room

Received Order : 08 October 2025
Calibration Date : 09 October 2025
Ambient Temperature : $(26 \pm 10) ^\circ\text{C}$
Relative Humidity : $(50 \pm 30) \%$
AC Line Voltage : $(220 \pm 22) \text{ V}$

Calibrated by : Uthen Kankawi

Approved by :

Kunchit

Approved Signatory

- () Chakrit Waewwanjua
() Suwit Imjai
(✓) Kunchit Promprat

Issue Date : 16 October 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

REVIEW BY Sithichok T.....

APPROVED BY.....

NEXT CAL DATE.....09/04/27.....



Equipment : Hot Air Oven
 Condition As-Received : Used Item
 Reference : 2510-0042OC-3

Cert. No.: 25TM525
 Page : 2 of 3

Procedure Used :-

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Thermocouple Type T.

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY59003411	24LM192	TPA	24 Dec 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This measurement result is traceable to the International System of Unit maintained through :

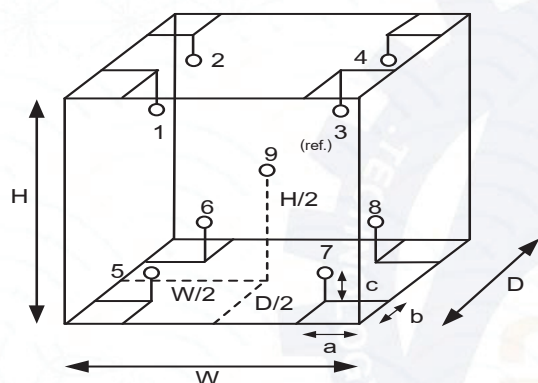
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Fresh air setting : Close

Environment during calibration		
	Beginning	Finished
Temp. (°C)	23	24
REL.Humid. (%)	54	56
AC Supply (Volt)	220	221



Position :	Ref. Std. ID No.:
1	23-20TC-01
2	23-20TC-02
3	23-20TC-03
4	23-20TC-04
5	23-20TC-05
6	23-20TC-06
7	23-20TC-07
8	23-20TC-08
9 (ref.)	23-20TC-09

Probe Installation Details :

a = 5.0 cm
 b = 5.0 cm
 c = 5.0 cm

Dimension of Chamber :

D = 0.50 m
 W = 0.80 m
 H = 0.60 m
 Capacity = 0.24 m³



Equipment : Hot Air Oven
Condition As-Received : Used Item
Reference : 2510-0042OC-3
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Close

Cert. No.: 25TM525

Page : 3 of 3

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor <i>k</i>
170	170	170	0.45	1.3	2.3	2

Calibration Point (°C)	Measured Temperature (°C)									Uncertainty (± °C)
	Position									
	1	2	3	4	5	6	7	8	9 (ref.)	
170	169.588	170.427	168.486	168.900	169.725	169.499	168.946	169.327	169.529	1.3

Average* : The average of 30 values in each position.

Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.

Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.

UUC* : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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Certificate of Calibration

Cert. No.: 26TM111

Page : 1 of 3

Equipment : Water Bath
Manufacturer : Memmert
Model : WNE 45
Serial No. : L712.0429
ID No. : BKK_ML0056

REVIEW BY Sithichok T.

APPROVED BY 

NEXT CAL DATE 04/02/27

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Location : Incubation & Microbiological Reading

Received Order : 04 February 2026
Calibration Date : 04 - 05 February 2026
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V

Calibrated by : Preecha Hlahib

Approved by :



Approved Signatory

- () Chakrit Waewwanjua
(✓) Suwit Imjai
() Kunchit Promprat

Issue Date : 16 February 2026

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Water Bath
Condition As-Received : Used Item
Reference : 2602-0026OC-1

Cert. No.: 26TM111

Page : 2 of 3

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT04 Based on ASTM E715 according to direct measurement method with Data Acquisition which connected with Industrial Platinum Resistance Thermometer (IPRT).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Data Acquisition	MY59003411	25LM177	TPA	26 Dec 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This measurement result is traceable to the International System of Unit maintained through :

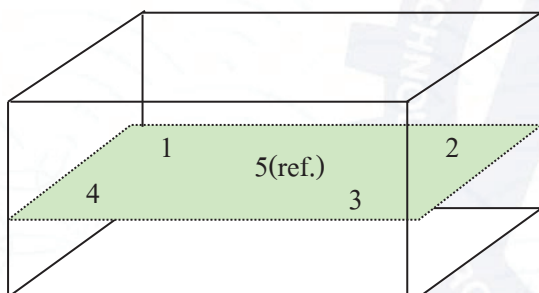
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Heat transfer medium used : Water

	<u>Environmental</u>		<u>AC Voltage Supply</u> (Volt)
	(°C)	(%R.H.)	
Beginning of Calibration	25	55	220
Finished of Calibration	20	69	220



Front

<u>Position :</u>	<u>Ref. Std. ID No.:</u>
1	4804539-001
2	4804539-002
3	4804539-003
4	4804539-004
5(ref.)	4804539-005



Equipment : Water Bath
Condition As-Received : Used Item
Reference : 2602-0026OC-1
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source

Cert. No.: 26TM111

Page : 3 of 3

Calibration point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Average* Standard Reading (°C)					Uncertainty (± °C)
			Position					
			1	2	3	4	5 (ref.)	
44.5	44.4	44.4	44.462	44.470	44.480	44.460	44.457	0.15
45.0	44.9	44.9	44.958	44.971	44.983	44.965	44.966	0.15

Calibration point (°C)	Uniformity (°C)	Stability (± °C)	Coverage Factor <i>k</i>
44.5	0.051	0.025	2
45.0	0.047	0.032	2

Average* : The average of 30 values in each position.

Uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

Stability : One-half of the greatest maximum difference of measured temperature at any one probe.

UUC* : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert. No.: 25TM1661

Page : 1 of 3

Equipment : Water Bath
Manufacturer : Memmert
Model : WPE 45
Serial No. : L707.0058
ID No. : BKK_ML0054

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Location : Presumptive Testing Lab

Received Order : 03 December 2025
Calibration Date : 03 - 04 December 2025
Ambient Temperature : (26 ± 10) °C
Relative Humidity : (50 ± 30) %
AC Line Voltage : (220 ± 22) V

Calibrated by : Preecha Hlahib

Approved by :

Kunchit

Approved Signatory

- () Chakrit Waewwanjua
() Suwit Imjai
(✓) Kunchit Promprat

Issue Date :

16 December 2025

REVIEW BY Sithichok T.

APPROVED BY

NEXT CAL DATE..... 03/12/26

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Water Bath
Condition As-Received : Used Item
Reference : 2512-0009OC-1

Cert. No.: 25TM1661
Page : 2 of 3

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT04 Based on ASTM E715 according to direct measurement method with Data Acquisition which connected with Industrial Platinum Resistance Thermometer (IPRT).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Data Acquisition	MY44073381	25LM82	TPA	17 May 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This measurement result is traceable to the International System of Unit maintained through :

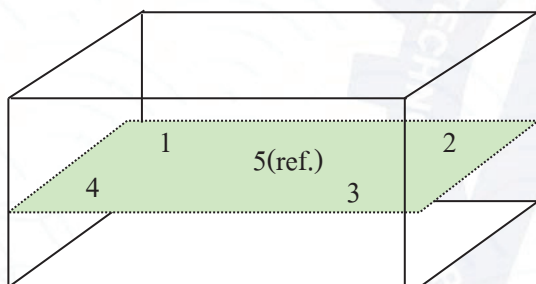
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Heat transfer medium used : Water

	<u>Environmental</u>		<u>AC Voltage Supply</u>
	(°C)	(%R.H.)	(Volt)
Beginning of Calibration	23	61	220
Finished of Calibration	20	64	221



Front

<u>Position :</u>	<u>Ref. Std. S/N.:</u>
1	4803988-006
2	4803988-007
3	4804539-014
4	4804539-015
5(ref.)	4804539-016



Equipment : Water Bath
Condition As-Received : Used Item
Reference : 2512-0009OC-1
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source

Cert. No.: 25TM1661
Page : 3 of 3

Calibration point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Average* Standard Reading (°C)					Uncertainty (± °C)
			Position					
			1	2	3	4	5 (ref.)	
42.0	42.0	42.0	41.990	41.984	41.990	41.978	41.959	0.15
44.0	44.0	44.0	43.988	43.990	43.982	43.981	43.957	0.15
44.5	44.5	44.5	44.503	44.466	44.458	44.503	44.485	0.15
46.0	46.0	46.0	45.999	45.966	45.966	45.995	45.980	0.15

Calibration point (°C)	Uniformity (°C)	Stability (± °C)	Coverage Factor <i>k</i>
42.0	0.055	0.019	2
44.0	0.061	0.032	2
44.5	0.063	0.043	2
46.0	0.071	0.031	2

Average* : The average of 30 values in each position.

Uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

Stability : One-half of the greatest maximum difference of measured temperature at any one probe.

UUC* : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
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TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert.No.: 25CH1162

Page.: 1 of 3

Equipment : pH Meter
Manufacturer : Hach
Model : HQ411d
Serial No. : 200100031163
ID No. : BKK_EN0342
Condition As-Received: Used Item
Received Date : 08 October 2025
Calibration Date : 09 October 2025
Reference : 2510-0271DSC-1
Submitted by :

Ambient Temperature : (25 ± 2.5) °C
Relative Humidity : (50 ± 15) %
Calibration Procedure : In - house method :
- CP-CH5 by direct measurement with
certified reference material (CRM)
- CP-CH8 by comparison with temperature standard

Calibrated by : Walalak Sirithean

Approved by :

Saithip

Approved Signatory

- () Chakrit Waewwanjua
() Ponpan Paipim
(✓) Saithip Meangmai

Issue Date : 10 October 2025

REVIEW BY *Jinda K*
APPROVED BY *Siriluk P*
NEXT CAL DATE.....09/10/26

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Cert.No.: 25CH1162

Page.: 2 of 3

Condition of this calibration result

1. Reference Standard Instrument

<u>Instrument</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Cert. No.</u>	<u>Due Date</u>
1) Ref. Standard Thermometer	4982054	110RC044	25I708	03 July 2026

- This measurement result is traceable to SI through Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd.,
ANSI-ASQ National Accreditation Board, Accredited No. AR-1835

<u>Buffer Solution</u>	<u>Manufacturer</u>	<u>Lot No.</u>	<u>Exp. date</u>
pH 4.007	CPA chem	1114384	12 June 2027
pH 6.965	CPA chem	1066667	18 Jan 2026
pH 10.010	CPA chem	1135355	16 Aug 2026

3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration Results

Function : pH Measurement

Performing three buffers standard curve by using buffer nominal pH (4,7,10)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH Measurement ($\pm$)	Coverage factor k
pH Electrode S/N.: 252063043080	4.007	3.996	176.6	0.0046	2.00
	6.965	6.974	1.1	0.0084	2.00
	10.010	9.996	-176.9	0.0070	2.00

Remark - Can not connect the BNC because the plug does not match with the socket.



Cert.No.: 25CH1162

Page.: 3 of 3

Calibration Results

Function : Temperature Measurement

(*) Without adjustment

This equipment was connected with Temperature Probe;

- Model : PHC281
- Serial No. : 252063043080

Dimension of probe

- Length : 103 mm.
- Diameter : 12 mm.
- Immersion Depth : 90 mm.

Calibration Point (°C)	Standard Temperature (°C)	UUC* Reading (°C)	Error (°C)	Uncertainty of measurement (± °C)	Coverage factor <i>k</i>
25.0	25.001	25.0	-0.001	0.13	2.00

Remark - UUC* = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
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TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert.No.: 25CG3385

Page.: 1 of 2

Equipment :	Burette
Capacity :	50 mL
Serial No. :	-
ID. No. :	BKK_EN0422
Manufacturer :	Witeg
Made in :	Germany
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Ambient Temperature :	(20 ± 2.5) °C
Relative Humidity :	(50 ± 10) %
Barometric Pressure :	753 mmHg
Calibration Procedure :	ASTM E 542 - 01
Calibrated by :	Srisuda Khamtha

REVIEW BY *Linda K*

APPROVED BY *Siriluk P*

NEXT CAL DATE.....03/09/26

Approved by :

Approved Signatory

() Ponpan Paipim
(✓) Chakrit Waewwanjua

Issue Date :

3 September 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Burette
Received Date : 1 September 2025
Condition As-Received : Used Item
Calibration Date : 3 September 2025
Reference : 2509-0049DSC-1

Cert.No.: 25CG3385
Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

<u>Instruments</u>	<u>Model</u>	<u>Serial No.</u>	<u>ID. No.</u>	<u>Certificate No.</u>	<u>Traceability</u>	<u>Due date</u>
1) Balance	MS204TS	C226356983	140RC010	24MM603	TPA	10 Oct 2025
2) Data Logger	HL-20D	20683159	140EC012	24H2129	TPA	15 Oct 2025
3) Digital Thermometer	HH376	230806555	140EC013	25I1740	TPA	17 Jan 2026

This measurement result is traceable to SI Unit

2. The certificate is valid only to the item calibrated on date and place of calibration.
3. True value is converted to true volume at the standard temperature of 20 °C

Calibration result :

Nominal capacity (mL)	Reading (mL)	Uncertainty (± mL)	k Factor
10	9.9941	0.0082	2.00
25	24.9804	0.0087	2.00
50	49.9819	0.010	2.00

Remark mL = cm³

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k , providing a level of confidence of approximately 95 %.

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Certificate No. T250873

Page 1 of 4

Certificate of Calibration

Equipment : Chamber (Cooling Room)**Manufacturer** : KOLDTECH**Model** : KM 320**Serial No.** : TBN-1012061/05**Customer Code** : BKK_EN0167**ID No.** : T2463A3**Customer** : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,

Khet Suan Luang, Bangkok 10250

Customer Location : Laboratory Room**Date of Receipt** : 28 May 2025**Calibrated By** : Atiphong Rongrat (Technician)**Approved By** :  / Boonchai Suriyawong (Site Calibration Manager)**Date of Issue** : 19 JUN 2025

REVIEW BY



APPROVED BY



NEXT CAL DATE.....04/12/26

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

Certificate No. T250873

Page 2 of 4

Calibration Report

Equipment : Chamber (Cooling Room)
Date of Calibration : 4 June 2025
Environment : Temperature : 23.4-24.9 °C
Line Voltage : 221.4-230.2 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert 16 standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2001) and AS2853-1986).

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN91-TN100	T242036	3 December 2025
TC	TYPE T	TN101-TN110	T242036	3 December 2025
DATA LOGGER	34970A	T121	T242036	3 December 2025

3. This certificate is traceable to :

National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

Equipment Description :

Time Constant 2 Hour 20 Minute At 3 °C
Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
☐ Close
☒ Not Available

5. Adjustment :

(X) without adjustment

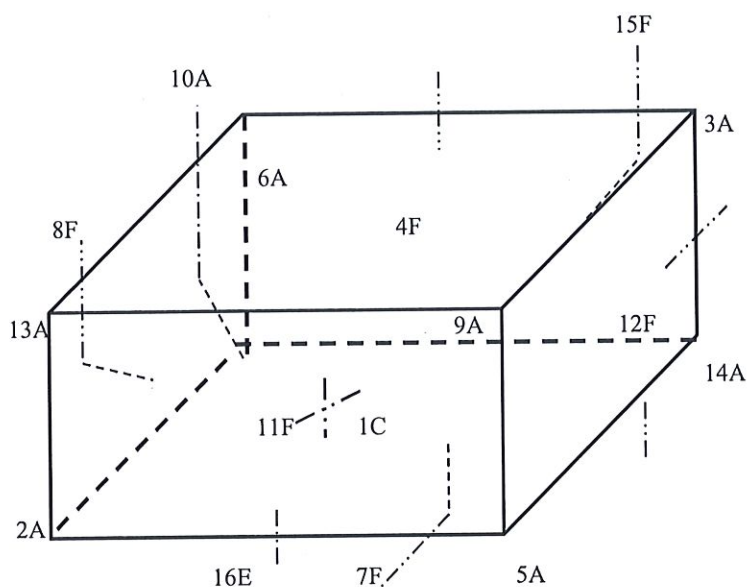
() after adjustment

Approved By. Bum Sri

Certificate No. T250873

Page 3 of 4

Calibration Report



C = Centre , F = Centre of Face , A = Corner , E = Centre of Edge

1C = TN91	12F = TN102
2A = TN92	13A = TN103
3A = TN93	14A = TN104
4F = TN94	15F = TN105
5A = TN95	16E = TN106
6A = TN96	
7F = TN97	
8F = TN98	
9A = TN99	
10A = TN100	
11F = TN101	

Approved By. _____



Certificate No. T250873

Page 4 of 4

Calibration Report

Measurement Results

Calibration Point	Average Standard Reading at each position (°C)											
	TN91	TN92	TN93	TN94	TN95	TN96	TN97	TN98	TN99	TN100	TN101	TN102
3.0	2.95	2.92	3.09	2.92	3.16	3.50	3.40	3.03	3.14	2.98	3.44	3.13
	TN103	TN104	TN105	TN106								
	3.19	3.06	3.46	2.92								

Chamber (Cooling Room)			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (± °C)	Uniformity (°C)	Uncertainty (± °C)	Coverage Factor <i>k</i>
	Min , Max	Average					
3.0	2.8 , 3.9	3.4	3.14	1.20	1.30	1.90	2.04

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor *k* which for a t-distribution, providing a level of confidence of approximately 95 % .

Approved By. 



Metrology Center

SCI ECO Services Company Limited

51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Bangkok Tel : +668 9205 6851 , +669 81924 0059

Saraburi Tel : +669 8247 2360

Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T260371

Certificate of Calibration

Page 1 of 4

Equipment : Digestion Unit

Manufacturer : SCP Science

Model : DigiPRER HT

Serial No. : HTC1120480658

Customer Code : BKK_EN0366

ID No. : T2635A5

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd.,

Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250

Customer Location : Wet Chemistry Lab 1

Date of Receipt : 25 February 2026

Calibrated By : Atiphong Rongrat (Technician)

Approved By :  / Boonchai Suriyawong (Site Calibration Manager)

Date of Issue : 05 MAY 2026

REVIEW BY	<u>finda K.</u>
APPROVED BY	<u>Siriluk P.</u>
NEXT CAL. DATE	<u>02/03/27</u>

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

Certificate No. T260371

Page 2 of 4

Calibration Report

Equipment : Digestion Unit
Date of Calibration : 2 March 2026
Environment : Temperature : 23.9 - 26.3 °C
Line Voltage : 221.8 - 225.9 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert four standard thermocouples type S into its chamber , the other one thermocouple type T use for ambient temperature measurement . The calibration was done in according to WI-T10.

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	Type S	M15-(CH1-CH4)	T250749	14 May 2026
DATA LOGGER	34970A	T193	T250749	14 May 2026

3. This certificate is traceable to :

National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

Equipment Description :

Time Constant 2 Hour 40 Minute At 380 °C
Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
☐ Close
☒ Not Available

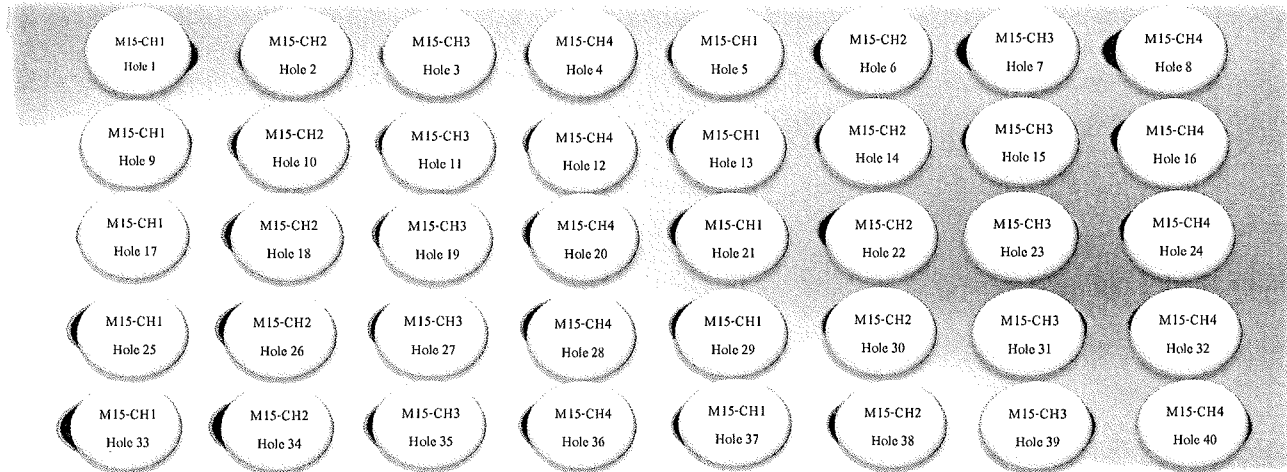
5. Adjustment :

(X) without adjustment

() after adjustment

Approved By. 

Calibration Report

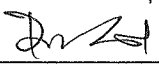


FRONT

Measurement Results

Cal. Point	Setting	Reading	STD.	Position of Standards at Block							
(°C)	(°C)	(°C)	Reading	M15-CH1 Hole 1	M15-CH2 Hole 2	M15-CH3 Hole 3	M15-CH4 Hole 4	M15-CH1 Hole 5	M15-CH2 Hole 6	M15-CH3 Hole 7	M15-CH4 Hole 8
380.0	380.0	379.8 - 380.2	Max °C	379.9	380.7	380.9	381.1	381.3	381.5	380.5	379.5
			Min °C	379.5	380.2	380.5	380.7	381.0	381.1	380.2	379.2
			Average °C	379.7	380.5	380.7	380.9	381.2	381.3	380.4	379.4
			Stability ± °C	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.2

Cal. Point	Setting	Reading	STD.	Position of Standards at Block							
(°C)	(°C)	(°C)	Reading	M15-CH1 Hole 9	M15-CH2 Hole 10	M15-CH3 Hole 11	M15-CH4 Hole 12	M15-CH1 Hole 13	M15-CH2 Hole 14	M15-CH3 Hole 15	M15-CH4 Hole 16
380.0	380.0	379.8 - 380.2	Max °C	380.1	380.3	380.6	381.1	380.4	380.6	380.3	380.7
			Min °C	379.6	379.8	380.2	380.6	380.1	380.2	379.7	380.4
			Average °C	379.8	380.1	380.4	380.9	380.3	380.4	380.0	380.5
			Stability ± °C	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2

Approved By. 

Calibration Report

Measurement Results

Cal. Point	Setting	Reading	STD.	Position of Standards at Block							
(°C)	(°C)	(°C)	Reading	M15-CH1 Hole 17	M15-CH2 Hole 18	M15-CH3 Hole 19	M15-CH4 Hole 20	M15-CH1 Hole 21	M15-CH2 Hole 22	M15-CH3 Hole 23	M15-CH4 Hole 24
380.0	380.0	379.8 - 380.2	Max °C	383.0	380.6	380.7	381.2	380.0	380.6	379.3	381.0
			Min °C	382.4	379.8	380.1	380.6	379.3	380.1	378.8	380.5
			Average °C	382.7	380.2	380.4	380.9	379.6	380.4	379.1	380.7
			Stability ± °C	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.2

Cal. Point	Setting	Reading	STD.	Position of Standards at Block							
(°C)	(°C)	(°C)	Reading	M15-CH1 Hole 25	M15-CH2 Hole 26	M15-CH3 Hole 27	M15-CH4 Hole 28	M15-CH1 Hole 29	M15-CH2 Hole 30	M15-CH3 Hole 31	M15-CH4 Hole 32
380.0	380.0	379.8 - 380.2	Max °C	381.3	380.1	380.6	381.4	380.9	381.3	379.9	380.6
			Min °C	381.0	379.7	380.1	380.9	380.5	380.8	379.3	380.2
			Average °C	381.1	379.9	380.3	381.2	380.7	381.0	379.6	380.4
			Stability ± °C	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2

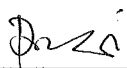
Cal. Point	Setting	Reading	STD.	Position of Standards at Block							
(°C)	(°C)	(°C)	Reading	M15-CH1 Hole 33	M15-CH2 Hole 34	M15-CH3 Hole 35	M15-CH4 Hole 36	M15-CH1 Hole 37	M15-CH2 Hole 38	M15-CH3 Hole 39	M15-CH4 Hole 40
380.0	380.0	379.8 - 380.2	Max °C	381.3	383.0	383.2	382.3	380.2	380.3	380.2	381.0
			Min °C	380.9	382.4	382.9	381.9	379.9	380.0	379.8	380.7
			Average °C	381.1	382.7	383.0	382.1	380.0	380.2	380.0	380.8
			Stability ± °C	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1

The expanded uncertainty of temperature measurement was $\pm 1.68^{\circ}\text{C}$

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95 % .

Approved By. 



Calibration Instrument Report

Instrument: Automated Discrete Analyzer

Manufacturer: AMS

Model: SmartChem 600

Serial number: 2401055

Customer: ALS Laboratory Group (Thailand) Co., Ltd.

Address: 104 Phatthanakan 40 Alley, Phatthanakan, Suan Luang, Bangkok 10250

Calibration date: 3 Sep 2025

Place: ALS Laboratory Group (Thailand) Co., Ltd.

REVIEW BY	 Arraya M.
APPROVED BY	 Siriluk P.
NEXT CAL. DATE	 3/9/2026

Check fluid to validate the correct functioning of the instrument

INTENDED USE

Check fluid to validate the correct functioning of the instrument.

Purpose

The purpose of this document is to aim at the correct execution of the method and the installation of the Check fluid to validate the correct functioning of the instrument.

COMPOSITION

Fluidic Test CHECK-01 20 x 4.5 mL (liquid) Lot number: 45751 Expiry date: 2027-04

PROCEDURE

The reagent is ready to use. Check fluid to validate the correct functioning of the instrument following method CHECK-01 and WORKPLAN CHECK01 DILUTION.

Results For the correct operation of the machine, the expected results are as follows:

1. Evaluation of calibration Results: R^2

	R^2
Result	1
Range	>0.995 - 1

2. Evaluation of Samples Results:

Dilution	Replicates	Results mg/L	Range	CV% calculated	CV%
1/1	x10	0.604	0.599 – 0.610	0.17	≤ 1
1/10	x10	0.611	0.590 – 0.625	1.37	≤ 2
1/20	x10	0.643	0.535 – 0.675	3.49	≤ 5
1/50	x10	0.689	0.510 – 0.750	7.70	≤ 10
1/75	x10	0.758	0.500 – 0.895	11.11	≤ 15

Validation by (..... )
Apirom Ekviriyakul



แบบฟอร์มการประเมินเครื่อง Discrete Analyzer หลังการสอบเทียบ

ชื่อเครื่องมือ :Discrete Analyzer

ID No. BKK_EN0438

S/N :2401055

Parameter	Range	Test Results	Pass	Fail	Remark
Evaluation of calibration	>0.995 -1	1.00	☒	☐	
CV% calculated Dilution1/1	≤ 1	0.17	☒	☐	
CV% calculated Dilution1/10	≤ 2	1.4	☒	☐	
CV% calculated Dilution1/20	≤ 5	3.5	☒	☐	
CV% calculated Dilution1/50	≤ 10	7.70	☒	☐	
CV% calculated Dilution1/75	≤ 15	11.11	☒	☐	

ผู้ตรวจสอบ *Arraya M.*
(Arraya Meechai)
(05/09/2025)

ผู้อนุมัติ: *Siriluk P.*
(Siriluk Bunnak)
(05/09/2025)



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3 : EQUIPMENT CALIBRATION AND TESTING SERVICES

534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250

TEL. 0-2717-3000 FAX. 0-2719-9484

Certificate of Testing

Cert.No.: 25TW101

Page.: 1 of 2

Equipment :

DO Meter

Manufacturer :

YSI

Model :

5000-230V

Serial No. :

09J101147

ID No. :

BKK_EN0017

Received Date :

19 May 2025

Test Date :

20 May 2025

Reference :

2505-0593DSC-1

Submitted by :

ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Laboratory Condition :

Temperature (25 ± 5) °C

Humidity (50 ± 20) %

Test Procedure :

In - house method : CP-CH9

by Comparison Technique with Azide Modification Method

Tested by :

Walalak Sirithean

Approved by :

Saithip

Approved Signatory

() Chakrit Waewwanjua

() Ponpan Paipim

(✓) Saithip Meangmai

Issue Date :

20 May 2025

REVIEW BY	<i>finda K</i>
APPROVED BY	<i>Siriluk P</i>
NEXT CAL DATE	20/11/26



Cert.No.: 25TW101

Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

This measurement result is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

<u>Instruments</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1. Burette	-	130BU10	25CG1126	18 Mar 2027
2. Balance	14233821	110RC001	24MM131	04 July 2025

2. Standard Material :-

<u>Material</u>	<u>Manufacturer</u>	<u>Lot.No.</u>	<u>Assay</u>
Sodium Thiosulfate 5-Hydrate AR	KEMAUS	2203162447	99.6%

Result : Dissolved Oxygen Meter Adjustment With Air 100 %

Dissolved Oxygen Probe No.: 16K100498

Titration Method (Azide Modification Method) (mg/L)	DO Meter Reading (mg/L)	Standard Deviation (mg/L)
8.20	8.21	0.0090

This report was certified only for the instrument we tested. It is allowable to use for study
Intend to use for advertising and referral purpose is prohibited. This report may not be reproduced
other in full, without written approval of the laboratory

-o0o-



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert. No.: 25LM83

Page.: 1 of 2

Equipment : DO Meter with Sensor

Manufacturer : YSI

Model : 5000-230V

Serial No. : 09J101147

ID No. : BKK_EN0017

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Location : TPA On Site Calibration Laboratory

Received Order : 19 May 2025

Calibrated Date : 20 May 2025

Ambient Temperature : (26 ± 10) °C

Relative Humidity : (50 ± 30) %

AC Line Voltage : (220 ± 22) V

Calibrated by : Warakorn Lerngagtrakul

Approved by :

Kunchit

Approved Signatory

- () Chakrit Waewwanjua
() Suwit Imjai
(✓) Kunchit Promprat

Issue Date :

26 May 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : DO Meter with Sensor
Condition As-Received : Used Item
Reference : 2505-0593DSC-2

Cert. No.: 25LM83
Page.: 2 of 2

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT01 according to comparison with Industrial Platinum Resistance Thermometer (IPRT) into Temperature Bath.

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Digital Thermometer	2188080	2411022	TPA	17 Sep 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function : Temperature measurement.

This instrument was connected with temperature sensor, S/N.: 16K100498

<u>Calibration Point</u> (°C)	<u>Immersion Depth</u> (mm)	<u>Standard Temperature</u> (°C)	<u>UUC* Reading</u> (°C)	<u>Error</u> (°C)	<u>Uncertainty</u> (± °C)	<u>Coverage Factor</u> <i>k</i>
20.00	60	20.003	19.92	-0.083	0.15	2.00

UUC* : Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-

Certificate No. T252280

Certificate of Calibration

Page 1 of 4

Equipment : Chamber (Incubator)

Manufacturer : Memmert

Model : ICP 750

Serial No. : F818.0075

Customer Code : BKK_EN0305

ID No. : T9571A4

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd.,

Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250

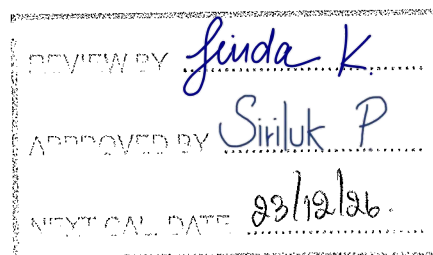
Customer Location : Wet Chemistry Lab 2

Date of Receipt : 17 December 2025

Calibrated By : Atiphong Rongrat (Technician)

Approved By :  / Boonchai Suriyawong (Site Calibration Manager)

Date of Issue : 12 JAN 2026

**The uncertainties are for a confidence probability of approximately 95%.**

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

Certificate No. T252280

Page 2 of 4

Calibration Report

Equipment : Chamber (Incubator)
Date of Calibration : 23 December 2025
Environment : Temperature : 23.4-24.9 °C
Line Voltage : 221.4-224.7 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert 12 resistance thermometer detectors into its chamber , the other one resistance thermometer detector use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2001) and AS2853-1986).

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 ohm	31-(CH1-10)	T250835	24 May 2026
RTD	100 ohm	32-(CH1-10)	T250835	24 May 2026
DATA LOGGER	34970A	T193	T250835	24 May 2026

3. This certificate is traceable to :

National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

Equipment Description :

Time Constant 2 Hour - Minute At 20 °C
Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max
☐ Close
☒ Not Available

5. Adjustment :

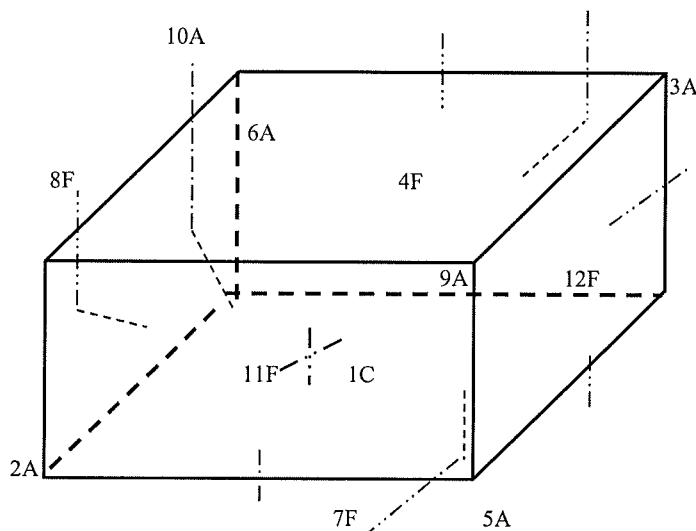
(X) without adjustment

() after adjustment

Approved By. _____



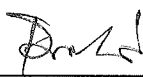
Calibration Report



C = Centre , F = Centre of Face , A = Corner , E = Centre of Edge

1C	=	31-CH1
2A	=	31-CH2
3A	=	31-CH3
4F	=	31-CH4
5A	=	31-CH5
6A	=	31-CH6
7F	=	31-CH7
8F	=	31-CH8
9A	=	31-CH9
10A	=	31-CH10
11F	=	32-CH1
12F	=	32-CH2

Approved By. _____



Certificate No. T252280

Page 4 of 4

Calibration Report

Measurement Results :

Average Standard Reading at each position (°C)												
Calibration Point	31-CH1	31-CH2	31-CH3	31-CH4	31-CH5	31-CH6	31-CH7	31-CH8	31-CH9	31-CH10	32-CH1	32-CH2
20	20.14	20.33	20.04	20.35	20.03	19.87	19.92	20.24	20.29	20.20	19.93	19.81

Average Standard Reading at each position (°C)												
Calibration Point	31-CH1	31-CH2	31-CH3	31-CH4	31-CH5	31-CH6	31-CH7	31-CH8	31-CH9	31-CH10	32-CH1	32-CH2
25	24.96	25.23	25.12	25.17	25.24	24.99	25.09	24.97	25.27	25.08	25.31	25.17

Chamber (Incubator)			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability ($\pm$ °C)	Uniformity (°C)	Uncertainty ($\pm$ °C)	Coverage Factor k
	Min , Max	Average					
20.0	-	20.0	20.09	0.10	0.41	0.38	2.02
25.0	-	25.0	25.13	0.10	0.37	0.38	2.02

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

Approved By. 

Accredited by

NSC-TISI-TIS 17025

Calibration 0426



NSC-TISI-TIS 17025

CALIBRATION 0426

Calibration certificate

Calibration Certificate No. 25BCI0265

Object	Electronic non-automatic weighing instrument	This calibration certificate documents the traceability to national standards.
Manufacturer	Sartorius	Uncertainties of measurements are taken into account when only statements of compliance are made.
Type	MSE224S-100-DU	This certificate was prepared by Sartorius Corporation in accordance to the current ISO/IEC 17025:2017 standard and Sartorius Work Instruction (Method) SOP WI 08.
Serial QM Ident. no.	27405555 BKK_EN0003	This certificate relate and apply this equipment only.
Customer	ALS Laboratory Group (Thailand)Co., Ltd. 104 Phatthanakarn 40,Phattanakarn Rd.,Khwaeng Phatthanakarn ,Khet Suan Luang,Bangkok 10250	REVIEW BY <i>Linda K</i> APPROVED BY <i>Siriluk P</i> NEXT CAL DATE <u>17/07/26</u>
Order no.	265054	
Number of pages	4	
Date of calibration	17 Jul 2025	

This calibration certificate may not be reproduced other than in full except with the permission of NSC-TISI-TIS-17025 and the issuing laboratory. Calibration certificates without signature are not valid.

The user is obliged to have the object recalibrated at appropriate intervals.

Date of issue	17 Jul 2025	Approval of the Calibration Certificate	Person in charge
		Mr. Chonchai Inthana	Chonchai Inthana

Calibration object

Single range instrument

Model	MSE224S-100-DU
Serial Number	27405555
QM Ident. no Inventory no.	BKK_EN0003 ---

Maximum capacity (Max. load)	220.0000 g
Measured up to	220.0000 g
Scale interval	0.0001 g

Place of calibration

Address	According to page 1
Department Cost center	ENVI Department ---
Building Floor	--- 1st Floor.
Room	Laboratory Room.
Maximum temperature variation at place of calibration	5 K

Calibration procedure

EURAMET Calibration Guide No. 18, Version 4.0 (11/2015) - Guidelines on the Calibration of Non-Automatic Weighing Instruments

Test equipment

Test equipment type	Test equipment ID	Valid until
Thermometer	Testo 174(Traceable to Si unit through ENTECH)	11 Nov 2025
Test weight set OIML R111 E2	Certificate No.M2308197S ,E2(Traceable to SI unit through TCS)	23 Aug 2025

Adjustment Status

The measuring device was internally adjusted before the calibration.

Environmental and measuring conditions

Date of calibration	17 Jul 2025
Temperature at place of calibration Temp. diff. <i>T</i> _{weights} - <i>T</i> _{place}	22.5 °C 0.7 K
Measuring conditions	The installation site is suitable. The device is level. Balance was loaded up to Max before test.
Comments	Humidity 58.0 %RH.

Measurement results | Measurement uncertainties

Repeatability

Test load (nominal): 10 g 200 g		
	10 g	200 g
1	10.0000 g	200.0000 g
2	10.0000 g	199.9999 g
3	10.0000 g	200.0000 g
4	10.0000 g	200.0000 g
5	10.0001 g	199.9999 g
6	10.0000 g	200.0000 g
7	10.0000 g	200.0000 g
8	10.0001 g	200.0000 g
9	10.0000 g	200.0000 g
10	10.0000 g	199.9999 g
	<i>s</i> = 0.00004 g	<i>s</i> = 0.00005 g

Eccentricity

Test load (nominal): 100 g	
Center	100.0000 g
Front left	100.0001 g
Back left	100.0000 g
Back right	100.0001 g
Front right	100.0001 g
Maximum deviation from centric loading indication $ \Delta_{ecc} _{max}$ = 0.0001 g	

Error of indication

Testload	Indication	Error	Expansion factor	Uncertainty	Uncertainty relative
<i>L</i>	<i>I</i>	<i>E</i>	<i>k</i>	<i>U</i> (<i>E</i>)	<i>U</i> _{rel} (<i>E</i>)
0.0100 g	0.0100 g	0.0000 g	2.00	0.00012 g	1.2 %
0.1000 g	0.1000 g	0.0000 g	2.00	0.00013 g	0.13 %
1.0000 g	1.0000 g	0.0000 g	2.00	0.00013 g	0.013 %
2.0000 g	2.0000 g	0.0000 g	2.00	0.00013 g	0.0065 %
5.0000 g	5.0000 g	0.0000 g	2.00	0.00013 g	0.0026 %
10.0000 g	10.0000 g	0.0000 g	2.00	0.00013 g	0.0013 %
20.0000 g	20.0000 g	0.0000 g	2.00	0.00014 g	0.00068 %
50.0000 g	50.0000 g	0.0000 g	2.00	0.00015 g	0.00029 %
100.0000 g	100.0000 g	0.0000 g	2.00	0.00018 g	0.00018 %
200.0000 g	200.0000 g	0.0000 g	2.00	0.00028 g	0.00014 %
220.0000 g	220.0001 g	0.0001 g	2.00	0.00032 g	0.00015 %
Maximum error of indication		$ E _{max}$ = 0.0001 g			

*U*_{rel}(*E*) is the quotient of *U*(*E*) and test load *L*. The uncertainty of measurement *U*(*E*) is valid only if error *E* is considered. You will find reference notes on the uncertainty of measurement in use under: Appendix to the calibration certificate | Interpretation of measurement results.
Reference note: The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the documented Expansion factor, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

End of calibration certificate

Uncertainty of measurement in use

Device adjusted before measurement	Yes
Temperature deviation considered	1.5 K (isoCAL active)
Temperature coefficient considered	$1 \cdot 10^{-6}/\text{K}$

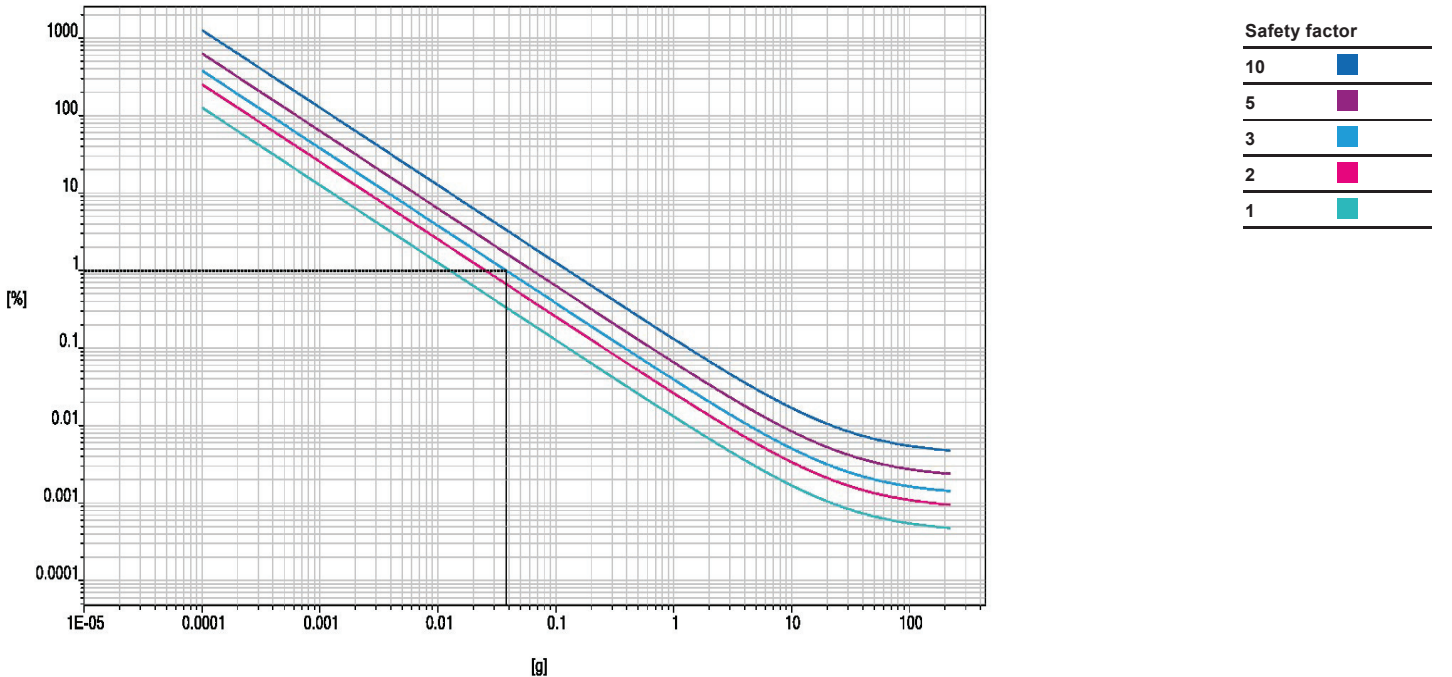
Uncertainty of the weighing result $U_{gl}(W)$

$U_{gl}(W) = 0.00013 \text{ g} + 4.19 \cdot 10^{-6} \cdot R$

Reference note: The current uncertainty of measurement is calculated by entering of the reading R into this formula. In relation to this, there is no need for a correction of the indication error. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied with an Expansion factor of 2, determined in accordance with the European Calibration Guideline EURAMET cg-18, V4.0. There is a 95 % probability that the value of the measurand will be in the assigned value range.

Indication in % from max load	Net indication R	Uncertainty $U_{gl}(W)$	Uncertainty relative $U_{gl}(W)_{rel}$
1 %	2.2000 g	0.00014 g	0.0063 %
25 %	55.0000 g	0.00036 g	0.00066 %
50 %	110.0000 g	0.00059 g	0.00054 %
75 %	165.0000 g	0.00082 g	0.00050 %
100 %	220.0000 g	0.0011 g	0.00048 %

Graphic realization of the relative uncertainty of measurement | process accuracy



Displayed example

Process accuracy	1.00 %
Safety factor	3
Minimum sample weight	0.0380 g



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert. No.: 25TM528

Page : 1 of 3

Equipment : Water Bath
Manufacturer : Memmert
Model : WNE 29
Serial No. : L622.0282
ID No. : BKK_EN0439

REVIEW BY

finda k

APPROVED BY

Siriluk P

NEXT CAL DATE

09/10/26

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Location : Organic Preparation Lab

Received Order : 08 October 2025

Calibration Date : 09 October 2025

Ambient Temperature : (26 ± 10) °C

Relative Humidity : (50 ± 30) %

AC Line Voltage : (220 ± 22) V

Calibrated by : Kunchit Promprat

S. Yuenit

Approved by :

Approved Signatory

() Chakrit Waewwanjua

() Ponpan Paipim

(✓) Suwit Imjai

Issue Date : 28 October 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Water Bath
Condition As-Received : Used Item
Reference : 2510-0042OC-13

Cert. No.: 25TM528

Page : 2 of 3

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT04 Based on ASTM E715 according to direct measurement method with Data Acquisition which connected with Industrial Platinum Resistance Thermometer (IPRT).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Data Acquisition	MY58041391	25LM20	TPA	08 Feb 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This measurement result is traceable to the International System of Unit maintained through :

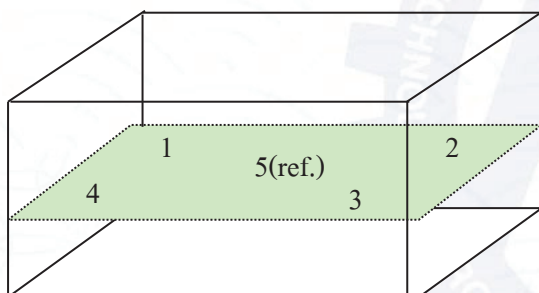
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Heat transfer medium used : Water

	<u>Environmental</u>		<u>AC Voltage Supply</u> (Volt)
	(°C)	(%R.H.)	
Beginning of Calibration	24	63	224
Finished of Calibration	24	58	224



Front

<u>Position :</u>	<u>Ref. Std. ID No.:</u>
1	70RC143
2	70RC144
3	70RC145
4	70RC146
5(ref.)	70RC147



Equipment : Water Bath
Condition As-Received : Used Item
Reference : 2510-0042OC-13
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source

Cert. No.: 25TM528
Page : 3 of 3

Calibration point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Average* Standard Reading (°C)					Uncertainty (± °C)
			Position					
			1	2	3	4	5 (ref.)	
85.0	85.0	85.0	84.863	84.748	84.869	84.990	84.966	0.21

Calibration point (°C)	Uniformity (°C)	Stability (± °C)	Coverage Factor <i>k</i>
85.0	0.33	0.12	2

Average* : The average of 30 values in each position.

Uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

Stability : One-half of the greatest maximum difference of measured temperature at any one probe.

UUC* : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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Metrology Center
SCI ECO Services Company Limited

51 Moo 8, Tubkwang, Kaeng Khoi, Saraburi, Thailand 18260

Bangkok Tel : +668 9205 6851 , +669 81924 0059

Saraburi Tel : +669 8247 2360

Website : www.scieco.co.th E-Mail : calibrate@scg.co.th



Certificate No. T251785

Page 1 of 3

Certificate of Calibration

Equipment : Chamber (Oven)

Manufacturer : Memmert

Model : UF110

Serial No. : B423.1549

Customer Code : BKK_EN0425

ID No. : T4671A5

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,

Khet Suan Luang, Bangkok 10250

Customer Location : Oven Room

Date of Receipt : 1 October 2025

Calibrated By : Sujjar Naknakred (Site Calibration Manager)

Approved By : Don Zol Boonchai Suriyawong (Site Calibration Manager)

Date of Issue : 10 OCT 2025

REVIEW BY	<u>funda k</u>
APPROVED BY	<u>Siriluk P</u>
NEXT CAL. DATE	<u>06/10/26</u>

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

Certificate No. T251785

Page 2 of 3

Calibration Report

Equipment : Chamber (Oven)
Date of Calibration : 6 October 2025
Environment : Temperature : 24.4-25.8 °C
Line Voltage : 220.5-225.2 V
Relative Humidity : 55 - 65 %RH

Condition of this results of calibration :

1. This equipment was calibrated by insert nine resistance thermometer detectors into its chamber , the other one resistance thermometer detector use for ambient temperature measurement . The calibration was done in according to WI-T20 (based on ASTM E145-94 (Reapproved 2019) and AS2853-1986).

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 ohm	23-(CH1-10)	T250314	6 April 2026
DATA LOGGER	34970A	T195	T250314	6 April 2026

3. This certificate is traceable to :

National Institute of Metrology (Thailand) through Metrological Center (NSC-TISI-TIS 17025 CALIBRATION 0244.

4. Condition of calibrated item : good

Equipment Description :

Time Constant 2 Hour 14 Minute At 104 °C
Fresh Air Damper ☒ Open ☒ Min ☐ Medium ☐ Max
☐ Close
☐ Not Available

5. Adjustment :

() without adjustment

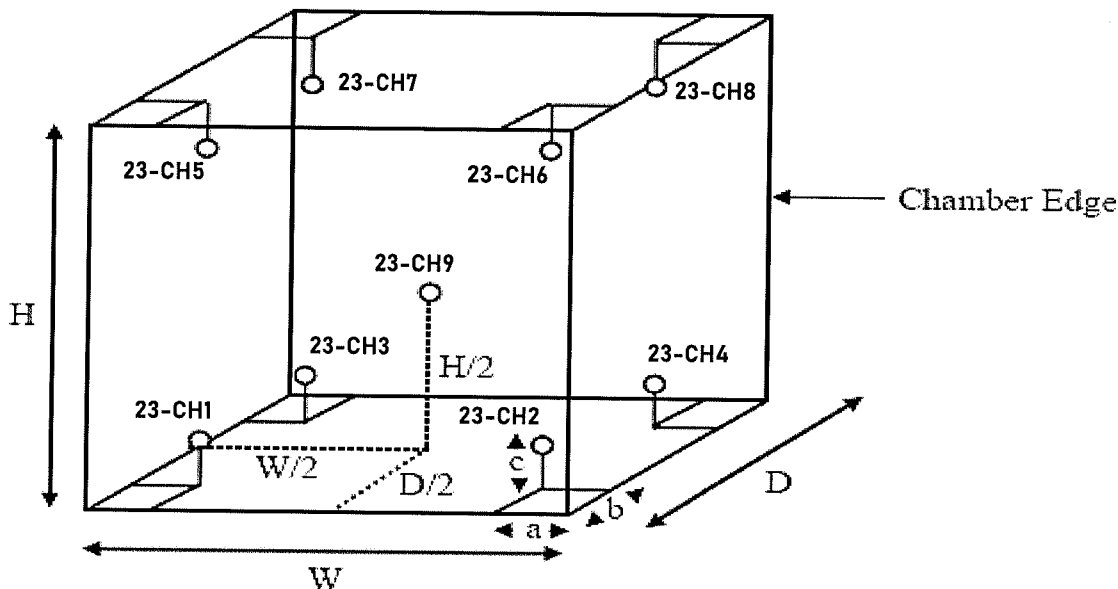
(X) after adjustment

Approved By. 

Certificate No. T251785

Page 3 of 3

Calibration Report



Remark : Internal Dimensions of Chamber : W (Width) = 56 cm. , H (Height) = 48 cm. and D (Depth) = 40 cm.
 Size of Installed Standard sensor number 23-CH1 to number 23-CH8 : a = 5 cm. , b = 5 cm. and c = 5 cm.
 Size of Installed Standard sensor number 23-CH9 : W/2 = 56 cm./2 , H/2 = 48 cm./2 and D/2 = 40cm./2

Measurement Results

Average Standard Reading at each position (°C)									
Calibration Point	23-CH1	23-CH2	23-CH3	23-CH4	23-CH5	23-CH6	23-CH7	23-CH8	23-CH9
104	104.13	103.54	103.92	104.37	104.40	104.51	104.18	103.86	103.80
180	180.05	179.82	179.64	179.52	181.20	180.29	180.19	179.35	179.89

Chamber (Oven)			Temperature Distribution				
Setting °C	Reading (°C)		Average (°C)	Stability (± °C)	Uniformity (°C)	Uncertainty (± °C)	Coverage Factor k
	Min , Max	Average					
104.0	-	104.0	104.08	0.28	0.87	0.45	2.00
180.0	180.0 , 180.1	180.0	179.99	0.37	1.49	0.61	2.00

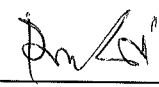
* The quoted uncertainty exclude "uniformity"

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k which for a t-distribution, providing a level of confidence of approximately 95 % .

End of Certificate.

Approved By. 

ภาคผนวก จ

สำเนาหนังสือใบอนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

ที่อก ๐๓๑๐(๑)/ ๑๖๑๖๘



กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๐ พฤศจิกายน ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๔ สิงหาคม ๒๕๖๖

- สิ่งที่ส่งมาด้วย ๑. รายชื่อผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๑ แผ่น
๒. รายชื่อเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๕ แผ่น
๓. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๑ แผ่น

ตามหนังสือที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ขอต่ออายุหนังสือ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐
ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด
ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

- ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๖ ราย ตามสิ่งที่ส่งมาด้วย ๑
ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ ๑๘๑ ราย ตามสิ่งที่ส่งมาด้วย ๒
ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูล
หรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย ๓

หนังสือฉบับนี้จะหมดอายุในวันที่ ๒ กันยายน ๒๕๖๙ หากประสงค์จะต่ออายุหนังสือ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อ
กรมโรงงานอุตสาหกรรม ภายใน ๓๐ วัน ก่อนวันสิ้นสุดอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายสิระ จันทร์เจ็ด)

นักวิทยาศาสตร์เชี่ยวชาญ วิชาการราชการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๔๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔
ที่ ออก ๐๓๑๐(๑)/ ๑ ๖ ๑ ๖ ๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๖ ราย

- | | |
|--------------------------------|----------------------------|
| ๑) นางสาวยุพาพร จันทร์เปล่ง | ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๑ |
| ๒) นางสาวชัชชัย โกมารกุล ณ นคร | ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๒ |
| ๓) นายศรายุทธ จิตรานนท์ | ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๓ |
| ๔) นางสาวนกนกร เอนก | ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๔ |
| ๕) นายสุริยา สอนแก้ว | ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๕ |
| ๖) นายวิชาญ ชุณหะวัณ | ทะเบียนเลขที่ ว-๒๐๔-ค-๐๐๐๖ |

วิมล

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

เลขทะเบียน ว-๒๐๔

ที่ ออก ๐๓๑๐(๑)/ ๑๖๑๖๘

ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๑๘๑ ราย

๑) นายกาจบัณฑิต กิตติคุณวิชัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๑
๒) นายภัทรพล สว่างใจธรรม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๒
๓) นายณราธิป เทือกชัยคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๓
๔) นายศิริโชค พงษ์ประสม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๔
๕) นายณัฐวุฒิ ดั่งแพง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๕
๖) นางสาวจินดา ไชจุลธรรม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๖
๗) นางสาวสาวิตรี น้อยเสงี่ยม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๗
๘) นางสาวชนัญญาญจน์ อัมมขม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๘
๙) นางสาวนรินทร์ สายเส็ง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๐๙
๑๐) นางสาวนันทวดี สมบูรณ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๐
๑๑) นางสาวศรณิยา เฉลิมธารงค์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๑
๑๒) นางสาวธัญญธร มงคลจิรวุฒิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๒
๑๓) นางสาวศิริลักษณ์ บุญนา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๓
๑๔) นายณพนธ์ จันทพันธ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๔
๑๕) นายนเรศรุทธิ์ โกมลาลัย	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๕
๑๖) นายธันวา จริยา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๖
๑๗) นางสาวเกศรินทร์ แก้วมัน	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๗
๑๘) นางสาวสุวิมล ชัยเรืองวุฒิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๘
๑๙) นางสาวสุชาดา ธรรมถาวร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๑๙
๒๐) นางสาวเปมิกา ชัยเดชธนกุล	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๐
๒๑) นางสาวศศิธร หมูสวัสดิ์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๑
๒๒) นางสาวเสาวลักษณ์ ภูณภาพพร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๒
๒๓) นายอภิสิทธิ์ สิงหา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๓
๒๔) นายศักดิ์สิทธิ์ ไพศาลพิสุทธิ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๔
๒๕) ว่าที่ร้อยตรีหญิง พรรณิภา ขำเจริญ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๕
๒๖) นางจิตตา คำภูแก้ว	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๖
๒๗) นางสาวอรรพรรณ รักยง	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๗
๒๘) นางสาวนพรัตน์ แยมกรานต์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๘
๒๙) นายจุลเดช วารินทร์	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๒๙
๓๐) นางสาวดาญรัตน์ ร้องคำ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๐
๓๑) นายพรมมี ศรีปัดเนตร	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๑
๓๒) นายอุทิศ อุ่นสีม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๒
๓๓) ว่าที่ร้อยตรี เฉลิมเกียรติ อมรศรีเสริม	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๓
๓๔) นางสาววริยา สร้างนา	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๔
๓๕) นายอนุพงศ์ รัตนศรีประเสริฐ	ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๕



๓๖) นางสาวจุฑารัตน์...

๓๖) นางสาวจุฑารัตน์ โอนสันเทียะ
๓๗) นางสาวจารุวรรณ พิมพ์อภิฤติยา
๓๘) นางสาวปรางค์ทิพย์ กิจไพศาลศักดิ์
๓๙) นางสาวเดือนใจ ทางกลาง
๔๐) นางสาวจิราพร ศิริเวช
๔๑) นายวรากร ผูกרך
๔๒) นายทง วิริยะสทกิจ
๔๓) นายธนิศ เจนจบ
๔๔) นายคณิศร ขำเพชร
๔๕) นายภูวิช พรหมสะอาด
๔๖) นายธนเดช โกศาพิพัฒน์
๔๗) นายชวฤทธิ์ วงษ์จันทร์
๔๘) นายอาทิตย์ ศรีเสน
๔๙) นายเจษดินทร์ คงศักดิ์ไทย
๕๐) นายจรัส บุญยิ่ง
๕๑) นายธนาณัติ เอนก
๕๒) นายอภิวัฒน์ ทุมหนู
๕๓) นางสาวสุภาขวัญ มาก
๕๔) นางสาวทัตพร ขวาลสมบุรณ์
๕๕) นางสาวธิตีมา บุญเพ็ง
๕๖) นางสาวภานุมาศ นามวัฒน์
๕๗) นางสาวอุไรรัตน์ ทังสร้างแป้น
๕๘) นายธีรวัฒน์ ปวงสุข
๕๙) นายอิทธิพล ยะโส
๖๐) นายประพจน์ วรรณชูชัย
๖๑) นายชยธร พวงทิพย์
๖๒) นางสาวกนกวรรณ จันทบาล
๖๓) นายสิทธิโชค ธงเงิน
๖๔) นางศิวาวรรณ ใจบุญ
๖๕) นางสาวพรรณธิดา พุ่มคง
๖๖) นายนวกัทร ศรีวิริยะ
๖๗) นายสุวิชา ทองอ่อน
๖๘) นายวิญญู บุญตะนัย
๖๙) นายสมบุรณ์ บุตรจันทร์
๗๐) นายวิรัตน์ ไชยนระรา
๗๑) นายณฤเบศน์ เพิ่มพูน
๗๒) นายจิรณัฐ ขาวละออ
๗๓) นายอัสนี นามบุรี
๗๔) นายอัศวเรศ จ่อสา

ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๖
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๗
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๘
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๓๙
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๐
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๑
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๒
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๓
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๔
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๕
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๖
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๗
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๘
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๙
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๐
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ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๒
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๓
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๔
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๕
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๖
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๗
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๘
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๕๙
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๐
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๑
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ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๓
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๔

3กมล

๗๕) นายประเสริฐ สุระขันธุ์
๗๖) นายอนุกุล จันทน์เนียม
๗๗) นายพิรพงษ์ ทองคุณปรีดา
๗๘) นายณฤพล ทองนุช
๗๙) นายอนุวัฒน์ ม่วงแพ
๘๐) นายเจตศราวุฒิ ปัตตะมะ
๘๑) นายกฤษณะ สายวรรณ
๘๒) นายพิชัย บุญยงค์
๘๓) นายภาณุพงศ์ โสมวงศ์
๘๔) นายสามารถ คุ่มปลี
๘๕) นายสัญญาชัย โกศรีนาม
๘๖) นายณัฐวุฒิ ศรีประเสริฐ
๘๗) นายชวัลธัช นาคพนม
๘๘) นายพงศธร ชัยทิพย์
๘๙) นายสิทธิโชค ทาสีดา
๙๐) นายธนากร อินสุตา
๙๑) นางสาววรรณิษา ชาตวันชัย
๙๒) นางสาวพิมพ์ตะวัน มินากุล
๙๓) นางสาวเพชรรัตน์ สิงห์สมบุญ
๙๔) นางสาวชญานิน พรหมจันทร์
๙๕) นายกীরติ ทวีราช
๙๖) นายจักริน หมั่นวิชา
๙๗) นายฉัตรชัย สุขเปี้ย
๙๘) นายณรรนท ต๊ะทองคำ
๙๙) นายศุภผล สนนอก
๑๐๐) นายทักษ์ดนัย อุบลศรี
๑๐๑) นายธนศวรร นามะกฤษณา
๑๐๒) นายธิตพิงศ์ บัวแดง
๑๐๓) นายนนทชัย อุปถัมภ์
๑๐๔) นายณัฐพล คุณสุทธิ
๑๐๕) นายนันทวัฒน์ สาริน
๑๐๖) นายปิยะนัฐ พลมะศรี
๑๐๗) นายพงศ์สิริ โสมเขียว
๑๐๘) นายพีรพัฒน์ กำคำ
๑๐๙) นายภาณุพงศ์ มานิตย์
๑๑๐) นายมงคล ผลาทิพย์
๑๑๑) นายสิรินนท์ ทองอ้น
๑๑๒) นายอเนชา ทันสมัย
๑๑๓) นายอดิศักดิ์ ผมไผ

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ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๓

วิมล

๑๑๔) นายอนันตชัย...

๑๑๔) นายอนันตชัย วิสม
๑๑๕) นายวรวิธ ตีนัก
๑๑๖) นายแสงตะวัน นตะสัด
๑๑๗) นายยุทธพงศ์ รัตนะ
๑๑๘) นายชัยณวุฒิ ไชยชนะนิจ
๑๑๙) นายวิศรุต ศรีธรรมมา
๑๒๐) นายณนทกร เผือกผ่อง
๑๒๑) นายกำชัย สุทธะ
๑๒๒) นางสาวณัฐภรณ์ บุญตะนัย
๑๒๓) นางสาวพัชรินทร์ แสนสร้อย
๑๒๔) นายไพรวลัย เปี่ยมพิมาย
๑๒๕) นางสาวศุภมาศ ทองมาก
๑๒๖) นางสาวลลิตา จิตรสว่าง
๑๒๗) นางสาวไมพร เสิกภูเขียว
๑๒๘) นางสาวกฤติมาพร คำมีแก่น
๑๒๙) นางสาวสกุลรัตน์ ภาคภูมิ
๑๓๐) นางสาวไพรินทร์ ศรีรูปี
๑๓๑) นางสาวทิพนเตร ผุยปัญญา
๑๓๒) นางสาวสาธิตา ปานทอง
๑๓๓) นางสาวอริสา ทองนวล
๑๓๔) นางสาวอรยา คำคล้อง
๑๓๕) นางสาวชุตาภรณ์ สุนทรสนาน
๑๓๖) นางสาวอัญชลี คำจันทร์
๑๓๗) นายบุญฤทธิ์ เอี่ยมเทศ
๑๓๘) นางสาวศุภรดา บันมยุรา
๑๓๙) นางสาวพาฤดี คุณนาน
๑๔๐) นางสาวจิราเจต ฟองดา
๑๔๑) นางสาวอารยา มีชัย
๑๔๒) นางสาววิษุตา นาคผจญ
๑๔๓) นางสาวนันทิยา จันทะลุน
๑๔๔) นายกิตติพงศ์ แซ่ลี
๑๔๕) นายอนวัติ ภูถวิล
๑๔๖) นายธีรพล แสงทอง
๑๔๗) นายศักดิ์พิพัฒน์ บุญมัน
๑๔๘) นายฐิติวัลด์ เอมอุไร
๑๔๙) นายชัยณรงค์ ศรีบุรินทร์
๑๕๐) นางสาวอัจฉราวรรณ สอนสนอง
๑๕๑) นางสาวณัฐพร สิงหา
๑๕๒) นายกัมเรศ แหยมโต

ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๔
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๕
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๖
ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๗
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ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๕๒

31/๑๖

๑๕๓) นางสาวอุบล...

๑๕๓) นางสาวอุบล เคิกศิริ
๑๕๔) นางสาวมโนรัตน์ ทองบุตร
๑๕๕) นายภาคภูมิ แทนไทย
๑๕๖) นางสาวสุภาภรณ์ เมล์พวง
๑๕๗) นางสาวพรทิศา สาดาชนม์
๑๕๘) นายเอกวิทย์ วันทะนา
๑๕๙) นายไตรมณฑล ทิพย์วรรณ
๑๖๐) นายจิรเมธ ประเสริฐสิริพงศ์
๑๖๑) นายจิรายุส เกษมสุข
๑๖๒) นายจิรศักดิ์ ศรีวิชัย
๑๖๓) นายณัฐกฤษณ์ สะพานแก้ว
๑๖๔) นายบุญศักดิ์ ปะที
๑๖๕) นายปณณวิทย์ เสมอทรัพย์
๑๖๖) นายพิษณุพงษ์ ไชยา
๑๖๗) นายภัทรพงษ์ มณฑาทอง
๑๖๘) นายวสันต์ ตรีนกุล
๑๖๙) นายภาณุเดช เพชรอุด
๑๗๐) นายอนุกุล วิละแสง
๑๗๑) นายภัทรพงษ์ มีสุข
๑๗๒) นางสาวนุชรวี ลีละทีป
๑๗๓) นางสาวสุภาวดี โกศรีนาม
๑๗๔) นางสาวอรณิข เทียนคำ
๑๗๕) นางสาวพรเพ็ญ ชอบสอน
๑๗๖) นางสาววันวิสา ขอนพิกุล
๑๗๗) นางสาวอรรณณ เถาว์ทอง
๑๗๘) นางสาวอัยย์ลีน เมอร์วิณณ์
๑๗๙) นางสาววิสรา ค่อยครอง
๑๘๐) นายวุฒิกร ศิริวรรณ
๑๘๑) นางสาวจรรวรรณ กระจำงพันธุ์

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ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๑

วิมล

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เลขทะเบียน ว-๒๐๔

ที่ ออก ๐๓๑๐(๑)/ ๑๖๑๖๘ ลงวันที่ ๒๐ พฤศจิกายน ๒๕๖๖

ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๗๔ รายการ

น้ำเสีย จำนวน 60 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldicarb	High-Performance Liquid Chromatographic Method ^[4]
2	Aldicarb Sulfone	High-Performance Liquid Chromatographic Method ^[4]
3	Aldicarb Sulfoxide	High-Performance Liquid Chromatographic Method ^[4]
4	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
5	Arsenic	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
6	Barium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
7	α -BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
8	β -BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
9	δ -BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
10	γ -BHC	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
11	Biochemical Oxygen Demand	1) 5-Day BOD Test, Azide Modification Method ^[4] 2) 5-Day BOD Test, Membrane Electrode Method ^[4]
12	Carbaryl	High-Performance Liquid Chromatographic Method ^[4]
13	Carbofuran	High-Performance Liquid Chromatographic Method ^[4]
14	Cadmium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
15	Chemical Oxygen Demand	1) Closed Reflux, Colorimetric Method ^[4] 2) Closed Reflux, Titrimetric Method ^[4]
16	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
17	Chromium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
18	Color	ADMI Weighted-Ordinate Spectrophotometric Method ^[4]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
19	Copper	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
20	Cyanide	Distillation, Colorimetric Method ^[4]
21	2,4'-DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
22	4,4'-DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
23	2,4'-DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
24	4,4'-DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
25	2,4'-DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
26	4,4'-DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
27	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
28	Endosulfan Sulfate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
29	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
30	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
31	Endrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
32	Endrin Aldehyde	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
33	Formaldehyde	Distillation, Colorimetric Method ^[3]
34	Free Chlorine	1) DPD Ferrous Titrimetric Method ^[4] 2) DPD Colorimetric Method ^[4]
35	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
36	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
37	Hexavalent Chromium	Colorimetric Method ^[4]
38	3-Hydroxycarbofuran	High-Performance Liquid Chromatographic Method ^[4]
39	Lead	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]

Small

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
40	Manganese	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
41	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass spectrometric Method ^[4]
42	Methiocarb	High-Performance Liquid Chromatographic Method ^[4]
43	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
44	Methomyl	High-Performance Liquid Chromatographic Method ^[4]
45	Nickel	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
46	Oil & Grease	1) Liquid-Liquid, Partition-Gravimetric Method ^[4] 2) Soxhlet Extraction Method ^[4]
47	Oxamyl	High-Performance Liquid Chromatographic Method ^[4]
48	Propoxur	High-Performance Liquid Chromatographic Method ^[4]
49	pH	Electrometric Method ^[4]
50	Phenols	1) Distillation, Chloroform Extraction Method ^[4] 2) Distillation, Direct Photometric Method ^[4]
51	Selenium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
52	Sulfide	Iodometric Method ^[4]
53	Temperature	Laboratory and Field Methods ^[4]
54	Total Dissolved Solids	Dried at 180 °C ^[4]
55	Total Kjeldahl Nitrogen	Semi-Micro Kjeldahl Method ^[4]
56	Total Phosphorous	Digestion, Colorimetric Method ^[4]
57	Total Suspended Solids	Dried from 103-105 °C ^[4]
58	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
59	Trivalent Chromium	1) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Colorimetric Method; Calculation ^[4]
60	Zinc	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4]

วิมล

น้ำใต้ดิน จำนวน 126 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	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
6	Arsenic	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
8	Barium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
10	Benzene	Purge and Trap, 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	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
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	Butanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
23	Cadmium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
27	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
33	Chromium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
34	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Colorimetric Method; Calculation ^[4]
35	Chromium (VI)	Colorimetric Method ^[4]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
36	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
37	Cyanide	Distillation, Colorimetric Method ^[4]
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
39	DDD	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
40	DDE	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
41	DDT	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
42	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
43	Di-n-Butyl Phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
47	3,3-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]

3m

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
57	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
58	Diethyl Phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
63	Di-n-octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
64	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
65	Endrin	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
67	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
68	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
69	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
70	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
73	n-Hexane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
74	α-HCH	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
75	β-HCH	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]

3m2

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
76	γ-HCH	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
79	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
81	Lead	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
82	Manganese	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
83	Mercury	1) Digestion, Cold Vapor Atomic Absorption Spectrometric Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
84	Methanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
86	Methyl bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
87	Methylene chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
89	2-Methylnaphthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
90	Methyl tert-butyl Ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
91	Naphthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
92	Nickel	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
95	N-Nitrosodi-n-Propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
98	pH	Electrometric Method ^[4]
99	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
100	Phenol	1) Distillation, Chloroform Extraction Method ^[4] 2) Distillation, Direct Photometric Method ^[4] 3) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
101	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
102	Selenium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
103	Silver	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4]
104	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
105	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
106	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
107	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[4]
108	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
109	TPH (C ₅ -C ₈)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[14,25]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
110	TPH (C ₈ -C ₁₆)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^[9,22]
111	TPH (C ₁₆ -C ₃₅)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^[9,22]
112	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
113	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
114	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
115	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[4]
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[4]
118	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
119	Vanadium	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4]
120	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
121	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
122	m-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
123	o-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
124	p-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
125	Xylene (Total)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^[4]
126	Zinc	1) Digestion, Inductively Coupled Plasma Method ^[4] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4]

3/11/25

อากาศเสีย (ปล่อยระบาย) จำนวน 28 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
2	Arsenic	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
3	Beryllium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
4	Cadmium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
5	Carbon Monoxide	1) Instrumental Analyzer Method ^[5] 2) Sampling Bag Non-Dispersive Infrared Method ^[5]
6	Chlorine	1) Absorption Sampling, Ion Chromatographic Method ^[5] 2) Isokinetic Sampling, Ion Chromatographic Method ^[5]
7	Chromium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
8	Cobalt	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
9	Copper	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
10	Cresol	Adsorption Sampling, Gas Chromatographic Method ^[5]
11	Dioxins	Isokinetic Sampling ^[5]
12	Hydrogen Chloride	1) Absorption Sampling, Ion Chromatographic Method ^[5] 2) Isokinetic Sampling, Ion Chromatographic Method ^[5]
13	Hydrogen Fluoride	1) Absorption Sampling, Ion Chromatographic Method ^[5] 2) Isokinetic Sampling, Ion Chromatographic Method ^[5]
14	Hydrogen Sulfide	Absorption Sampling, Iodometric Method ^[5]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	Lead	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
16	Manganese	2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
17	Mercury	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
18	Nickel	2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
19	Opacity	1) Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[5]
20	Oxides of Nitrogen	2) Isokinetic Sampling, Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method ^[5]
21	Selenium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
22	Sulfur Dioxide	2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
23	Sulfuric Acid	1) Absorption Sampling, Phenoldisulfonic Acid Method ^[5]
24	Tellurium	2) Absorption Sampling, Alkaline Permanganate/Colorimetric Method ^[5]
25	Tin	3) Instrumental Analyzer Method ^[5]
26	Total Suspended Particulate	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
		2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
		1) Absorption Sampling, Barium-Thorin Titrimetric Method ^[5]
		2) Instrumental Analyzer Method ^[5]
		Isokinetic Sampling, Barium-Thorin Titrimetric Method ^[5]
		1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
		2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
		1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
		2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
		1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5]
		2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
		1) Isokinetic Sampling, Gravimetric Method ^[5]
		2) Paired Train, Isokinetic Sampling, Gravimetric Method ^[5]

3mml

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
27	Vanadium	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[5]
28	Xylene	Adsorption Sampling, Gas Chromatographic Method ^[5]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 35 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
2	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
3	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
8	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
9	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation Method ^[1,6,16,19] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation Method ^[1,6,17,19] 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[7,8,16,19] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[7,8,17,19]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method ^[1,6,19] 2) Alkaline Digestion, Colorimetric Method ^[8,19]
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
12	Copper	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
14	DDD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26]

amal

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
17	Dieldrin	2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26] 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26]
18	Endrin	2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26] 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26]
19	Heptachlor	2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26] 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26]
20	Lead	2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26] 1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16]
21	Lindane	4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17] 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[1,6,20] 2) Waste Extraction, Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method ^[1,6,30] 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[20] 4) Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method ^[30] 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^[21]
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method ^[11,26]
24	Mirex	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic / Mass Spectrometric Method ^[11,26]
25	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma / Mass Spectrometric Method ^[7,17]
26	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma / Mass Spectrometric Method ^[7,17]
27	Polychlorinated biphenyls (PCBs) - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic Method ^[11,26]

3/11/25

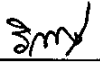
ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
	- 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5-Trichlorobiphenyl - 2,4',5-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	
28	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
29	pH	Electrometric Method ^[23,24]
30	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]

31

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
31	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
32	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
33	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^[1,9,26] 2) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[10,26] 3) Automated Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^[11,26]
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]
35	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,16] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,6,17] 3) Digestion, Inductively Coupled Plasma Method ^[7,16] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[7,17]

31m/

ดิน จำนวน 125 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
2	Acetone	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method ^[13]
3	Aldrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
4	Anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
5	Antimony	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
6	Arsenic	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
7	Atrazine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
8	Barium	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
9	Benz(a)anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25] 

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
11	Benzo(b)fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
12	Benzo(k)fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
13	Benzoic acid	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
14	Benzo(a)pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
15	Benzo(g,h,i)perylene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
16	Beryllium	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
17	Bis(2-chloroethyl)ether	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
18	Bis(2-ethylhexyl)phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
21	Butanol	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method ^[13,25]
22	Butyl Benzyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]

สม

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
23	Cadmium	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
24	Carbazole	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
25	Carbon Disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
27	Chlordane	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
28	p-Chloroaniline	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
32	2-Chlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
33	Chromium	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
34	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[7,8,16,19] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[7,8,17,19]
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^[8,19]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
36	Chrysene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
37	Cyanide	Extraction, Distillation, Colorimetric Method ^[27,28,29]
38	2,4-D	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
39	DDD	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
40	DDE	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
41	DDT	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
42	Dibenz(a,h)anthracene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
43	Di-n-Butyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
47	3,3-Dichlorobenzidine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]

Smel

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
53	2,4-Dichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
57	Dieldrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
58	Diethyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
59	2,4-Dimethylphenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
60	2,4-Dinitrophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
61	2,4-Dinitrotoluene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
62	2,6-Dinitrotoluene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]

Signature

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
63	Di-n-Octyl Phthalate	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
64	Endosulfan	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
65	Endrin	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
67	Fluoranthene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
68	Fluorene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
69	Heptachlor	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
70	Heptachlor epoxide	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
71	Hexachlorobenzene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
73	n-Hexane	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method ^[13]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
74	α -HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
75	β -HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
76	γ -HCH	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
77	Hexachlorocyclopentadiene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
78	Hexachloroethane	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
79	Indeno(1,2,3-cd)pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
80	Isophorone	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
81	Lead	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
82	Manganese	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
83	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[20] 2) Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry ^[21] 3) Digestion, Cold-Vapor Atomic Fluorescence Spectrometric Method ^[30]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
84	Methanol	1) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25] 2) Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method ^[13,25]
85	Methoxychlor	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
86	Methyl Bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
87	Methylene Chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
88	2-methylphenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
89	2-Methylnaphthalene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
90	Methyl tert-Butyl Ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
91	Naphthalene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
92	Nickel	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
93	Nitrobenzene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
94	N-Nitrosodiphenylamine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
95	N-Nitrosodi-n-propylamine	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
96	Polychlorinated biphenyls (PCBs) - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5',6-Heptachlorobiphenyl - 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
97	Pentachlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
98	Phenanthrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
99	Phenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
100	Pyrene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
101	Selenium	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
102	Silver	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
103	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
106	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
107	Toxaphene	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
108	TPH (C ₅ -C ₈)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
109	TPH (C ₈ - C ₁₆)	1) Automate Extraction, Gas Chromatographic Method ^[11,22] 2) Solvent Extraction, Gas Chromatographic Method ^[12,22] 3) Ultrasonic Extraction, Gas Chromatographic Method ^[22,31]
110	TPH (C ₁₆ - C ₃₅)	1) Automate Extraction, Gas Chromatographic Method ^[11,22] 2) Solvent Extraction, Gas Chromatographic Method ^[12,22] 3) Ultrasonic Extraction, Gas Chromatographic Method ^[22,31]
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
115	2,4,5-Trichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
116	2,4,6-Trichlorophenol	1) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[10,26] 2) Automated Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[11,26]
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
118	Vanadium	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]
119	Vinyl Acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
120	Vinyl Chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
121	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
122	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
123	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[15,25]
125	Zinc	1) Digestion, Inductively Coupled Plasma Method ^[7,16] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[7,17]

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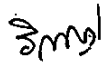
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ที่ อก ๐๓๑๐(๑)/ ๔๑ ๒๑

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๕ เมษายน ๒๕๖๗

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๒๙ มีนาคม ๒๕๖๗

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๓ ราย

- | | |
|--------------------------|----------------------------|
| ๑) นางสาวพรรณธิดา พุ่มคง | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๕ |
| ๒) นายกำชัย สุทธะ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๒๑ |
| ๓) นางสาวศุภรดา บัณมยุรา | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๘ |

๒. ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน จำนวน ๑๒ ราย

- | | |
|-----------------------------|----------------------------|
| ๑) นางสาวฐานิดา กลิ่นเขียว | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๒ |
| ๒) นางสาวกัญญภัสสร สายคำ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๓ |
| ๓) นางสาวณัฐนันท์ กันทะวงศ์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๔ |
| ๔) นายอำนาจ วงษาเคน | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๕ |
| ๕) นายกฤษณพล ปัญญาวงศ์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๖ |
| ๖) นายณชากร หารรักษา | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๗ |
| ๗) นายวัชรินทร์ ผ่องสามสวน | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๘ |
| ๘) นายณัฐพงศ์ โสภา | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๙ |
| ๙) นายศักรินทร์ ปานเพ็ง | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๐ |
| ๑๐) นายณัฐพล ชุ่มชื่น | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๑ |
| ๑๑) นายธนา สุพาพันธุ์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๒ |
| ๑๒) นายนราธร แก้วพงษ์ชา | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๓ |

อนึ่ง หนังสือฉบับนี้จะหมดอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
ในวันที่ ๒ กันยายน ๒๕๖๙

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายพริต กัตน์กรอง)

รองอธิบดี ปฏิบัติราชการแทน

อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



ที่ อก ๐๓๑๐(๑)/ ๑๒ ๓๖ ๘ /



กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๑๘ ธันวาคม ๒๕๖๗

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒ ธันวาคม ๒๕๖๗

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๘ ราย ได้แก่

- | | |
|-------------------------------|----------------------------|
| ๑) นายประพจน์ วรรณชูชัย | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๖๐ |
| ๒) นายจิรณัฐ ขาวละออ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๗๒ |
| ๓) นายพีรพัฒน์ กำคำ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๘ |
| ๔) นางสาวอรยา คำคล่อง | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๔ |
| ๕) นายกิตติพงศ์ แซ่ลี | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๔๔ |
| ๖) นายจิรเมธ ประเสริฐศิริพงศ์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๐ |
| ๗) นายภัทรพงษ์ มณฑาทอง | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๖๗ |
| ๘) นางสาวจารุวรรณ กระจำงพันธ์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๘๑ |

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายธีรทัศน์ อิศรางกูร ณ อยุธยา)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



“อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว”



ที่ อก ๐๓๑๐(๑)/ ๓ ๑ ๕ ๐



กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๑๐ เมษายน ๒๕๖๘

เรื่อง ยกเลิกบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๒ เมษายน ๒๕๖๘

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอยกเลิกบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์
จำนวน ๒ ราย ได้แก่

๑) นายธิตพิงค์ บัวแดง

ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๐๒

๒) นายมงคล ผลาทิพย์

ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๑๐

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายธีรทัศน์ อิศรางกูร ณ อยุธยา)

รองอธิบดี ปฏิบัติราชการแทน

อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th





ที่ อก ๐๓๑๐(๑)/ ๕๖ ๗ ๓

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๐๕ มิถุนายน ๒๕๖๔

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๗ พฤษภาคม ๒๕๖๔

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการ
วิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ
เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เพิ่มเจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน
จำนวน ๑๑ ราย ได้แก่

- | | |
|-----------------------------------|----------------------------|
| ๑) นายคุณากร มั่นชื่น | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๔ |
| ๒) นายชัยมงคล แสนมาตร | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๕ |
| ๓) นายเอกรินทร์ บุตส์ักดิ์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๖ |
| ๔) นายพิชานนท์ อินปริง | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๗ |
| ๕) นายศตวรรษ แก้วกันหา | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๘ |
| ๖) นายวิกรม มีศิริ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๙๙ |
| ๗) นายภคนันท์ คำจันทราช | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๐ |
| ๘) นายศิริวิทย์ มีไพฑูรย์ | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๑ |
| ๙) นายธีรพงษ์ ศรีคำแหง | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๒ |
| ๑๐) นายอภิสิทธิ์ ศรีคงแก้ว | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๓ |
| ๑๑) ว่าที่ร้อยตรี ภาณุพงศ์ แสนศรี | ทะเบียนเลขที่ ว-๒๐๔-จ-๐๒๐๔ |

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
ในวันที่ ๒ กันยายน ๒๕๖๔

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายศิระ จันท์เลิศ)

นักวิทยาศาสตร์เชี่ยวชาญ รัชการยการแทน
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



“อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว”



ที่ อก ๐๓๑๐(๑)/ ๒๕๐๘



กรมโรงงานอุตสาหกรรม

ถนนพระรามที่ ๖ แขวงทุ่งพญาไท

เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๑ สิงหาคม ๒๕๖๔

เรื่อง เปลี่ยนแปลงสารมลพิษที่วิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๒๗ มิถุนายน ๒๕๖๔

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์

บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด จำนวน ๖ แผ่น

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงสารมลพิษที่วิเคราะห์ ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด เพิ่มขอบข่ายชนิดสารมลพิษที่วิเคราะห์ในน้ำใต้ดิน สิ่งปฏิกูลและวัสดุที่ไม่ใช่แล้ว และดิน ตามสิ่งที่ส่งมาด้วย

อนึ่ง หนังสือฉบับนี้จะสิ้นสุดอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
ในวันที่ ๒ กันยายน ๒๕๖๕

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)

ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน

ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



เอกสารแนบท้ายหนังสือเปลี่ยนแปลงสารมลพิษที่วิเคราะห์

บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

เลขทะเบียน ว-๒๐๔

ที่ อก ๐๓๑๐(๑)/ ๖๕ ๐ ๘

ลงวันที่

๒๑

สิงหาคม ๒๕๖๔

ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๔๐ รายการ

น้ำใต้ดิน จำนวน ๔ รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[2]
2	Copper	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[2]
3	Iron	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[2]
4	Molybdenum	Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[2]

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 17 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
2	Arsenic	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
3	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]

๗๖

Beryllium

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
4	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
5	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
6	Chromium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
7	Chromium (III)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation Method ^[1,3,6,8] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation Method ^[1,3,7,8] 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[4,5,6,8] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[4,5,7,8]
8	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
9	Copper	3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7] 1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
10	Lead	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
11	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
12	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
13	Selenium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]

อนันต์

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
14	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
15	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
16	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
17	Zinc	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,3,6] 2) Waste Extraction, Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[1,3,7] 3) Digestion, Inductively Coupled Plasma Method ^[4,6] 4) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]

ดิน จำนวน 19 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aluminum	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]
2	Antimony	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/Mass Spectrometric Method ^[4,7]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
3	Arsenic	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
4	Barium	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
5	Beryllium	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
6	Cadmium	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
7	Chromium	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
8	Chromium (III)	1) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[4,5,6,8] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation Method ^[4,5,7,8]
9	Copper	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
10	Iron	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
11	Lead	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
12	Manganese	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
13	Molybdenum	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
14	Nickel	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	pH	Electrometric Method ^[9]
16	Selenium	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
17	Silver	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
18	Vanadium	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]
19	Zinc	1) Digestion, Inductively Coupled Plasma Method ^[4,6] 2) Digestion, Inductively Coupled Plasma/ Mass Spectrometric Method ^[4,7]

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กมลวิ

ที่ อก ๐๓๑๐(๑)/๘๐ ๑ ๑



กรมโรงงานอุตสาหกรรม

ถนนพระรามที่ ๖ แขวงทุ่งพญาไท

เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๒๖ กันยายน ๒๕๖๔

เรื่อง เปลี่ยนแปลงบุคลากร ชื่อตัวและชื่อสกุลของบุคลากร

เรียน กรรมการผู้จัดการ บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกซเรย์
ลงวันที่ ๒๑ สิงหาคม ๒๕๖๔

ตามคำขอที่อ้างถึง บริษัท เอแอลเอส แลบบอราทอรี กรุ๊ป (ประเทศไทย) จำกัดห้องปฏิบัติการวิเคราะห์เอกซเรย์ เลขทะเบียน ว-๒๐๔ สถานที่ตั้งเลขที่ ๑๐๔ ซอยพัฒนาการ ๔๐ ถนนพัฒนาการ แขวงพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ชื่อตัวและชื่อสกุลของบุคลากร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ให้ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย

๑) นางสาวพาฤดี คุณนาน

ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๓๙

๒) นางสาวอรณิชา เทียนดำ

ทะเบียนเลขที่ ว-๒๐๔-จ-๐๑๗๔

๒. ให้เปลี่ยนชื่อตัวและชื่อสกุลของเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จากเดิม นายอาทิตย์ ศรีเสน เป็น นายรัฐธีร์ ทวีกิจวรพจน์ ทะเบียนเลขที่ ว-๒๐๔-จ-๐๐๔๘

อนึ่ง หนังสือฉบับนี้จะสิ้นอายุพร้อมหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกซเรย์ ในวันที่ ๒ กันยายน ๒๕๖๔

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)

ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน

ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th



“อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว”





บริษัท เอแอลเอส แลборาทอรี กรุ๊ป (ประเทศไทย) จำกัด (สำนักงานใหญ่)
104 ซอยพัฒนาการ 40 ถนนพัฒนาการ
แขวงพัฒนาการ เขตสวนหลวง กรุงเทพฯ 10250



ติดต่อเรา

