



## ภาคผนวก ง

### ผลการวิเคราะห์



## TEST REPORT

Analysis No. : R24-0044

Received Date: 09/01/24

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 06/02/24

Analysis Date : 08-25/01/24

Job No. : S670049/Jan

Sampling Date \* : 08/01/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2401-WW0064 = gray turbid/high black sediment/smell

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0064		
				น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	33.2	≤ 45	08/01/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.97	5.5-9.0	08/01/24
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate	19	600	09/01/24
	Color (pH 7) *	ADMI		14	600	09/01/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	51.6	200	09/01/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	1,988	3,000	10/01/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	3.54	-	08/01/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	52.5	500	10-15/01/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	163	750	10/01/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	2.2	10	11/01/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	20.95	100	10/01/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.82	-	10/01/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	0.020	0.2	11/01/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	0.027	1.0	11/01/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	09/01/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	1.36	1.0	25/01/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	0.30	1.0	09/01/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	11/01/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	09/01/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0009	0.005	12/01/24
20	As *	mg/L	} Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0021	0.25	16/01/24
21	Se *	mg/L		< 0.0005	0.02	16/01/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.10	1.0	11/01/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	11/01/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.62	2.0	12/01/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.34	5.0	11/01/24

continue

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For นิคมอุตสาหกรรมลาดกระบัง

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Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 06/02/24

Analysis Date : 08-25/01/24

Job No. : S670049/Jan

Sampling Date \* : 08/01/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0064		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.04	1.0	11/01/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	11/01/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.86	5.0	11/01/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	10-12/01/24
	- beta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- gamma-HCH	µg/L		N.D.	Not found	10-12/01/24
	- delta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- epsilon-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor	µg/L		N.D.	Not found	10-12/01/24
	- Aldrin	µg/L		N.D.	Not found	10-12/01/24
	- Isodrin	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	10-12/01/24
	- oxy-Chlordane	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	10-12/01/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	10-12/01/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	10-12/01/24
	- Dieldrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- beta-Endosulfan	µg/L		N.D.	Not found	10-12/01/24

continue

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Thai Environmental Technic Limited  
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



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ต้นฉบับ

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Page 3 of 12

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Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 06/02/24

Analysis Date : 08-25/01/24

Job No. : S670049/Jan

Sampling Date \* : 08/01/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0064		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2		
	- Endrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- Methoxychlor	µg/L		N.D.	Not found	10-12/01/24
	- Mirex	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	10-12/01/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006  
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

06.02.24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

06.02.24

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Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 06/02/24

Analysis Date : 08-16/01/24

Job No. : S670049/Jan

Sampling Date \* : 08/01/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2401-WW0065 = gray turbid/high black sediment/smell

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0065		
				น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	31.7	≤ 45	08/01/24
2	pH *	-	Electrometric Method (SM 4500 B)	8.41	5.5-9.0	08/01/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	31	600	09/01/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	29	600	09/01/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	33.6	200	09/01/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	724	3,000	10/01/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	1.38	-	08/01/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	79.2	500	10-15/01/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	257	750	10/01/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	7.7	10	11/01/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	16.93	100	10/01/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	5.82	-	10/01/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	11/01/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	0.020	1.0	11/01/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	9.97	1.0	09/01/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	0.14	1.0	11/01/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	09/01/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	0.03	0.75	11/01/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	09/01/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	12/01/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0026	0.25	16/01/24
21	Se *	mg/L		< 0.0005	0.02	16/01/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.11	1.0	11/01/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	11/01/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.08	2.0	12/01/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.11	5.0	11/01/24

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**Customer :** Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

**Contact :** Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

**Report Date :** 06/02/24

**Analysis Date :** 08-16/01/24

**Job No. :** S670049/Jan

**Sampling Date \* :** 08/01/24

**Sampling By \* :** TET

**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0065		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	1.0	11/01/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	11/01/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.38	5.0	11/01/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	10-12/01/24
	- beta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- gamma-HCH	µg/L		N.D.	Not found	10-12/01/24
	- delta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- epsilon-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor	µg/L		N.D.	Not found	10-12/01/24
	- Aldrin	µg/L		N.D.	Not found	10-12/01/24
	- Isodrin	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	10-12/01/24
	- oxy-Chlordane	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	10-12/01/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	10-12/01/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	10-12/01/24
	- Dieldrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- beta-Endosulfan	µg/L		N.D.	Not found	10-12/01/24

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Sampling Date \* : 08/01/24

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Sampling By \* : TET

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0065		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3		
	- Endrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- Methoxychlor	µg/L		N.D.	Not found	10-12/01/24
	- Mirex	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	10-12/01/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114

N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

06/02/24



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

06/02/24





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Report Date : 06/02/24

Analysis Date : 08-16/01/24

Job No. : S670049/Jan

Sampling Date \* : 08/01/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2401-WW0066 = yellow turbid/slight black sediment

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0066		
				น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	33.7	≤ 40	08/01/24
2	pH *	-	Electrometric Method (SM 4500 B)	8.14	5.5-9.0	08/01/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	34	300	09/01/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	28	300	09/01/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	21.5	50	09/01/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	1,868	3,000	10/01/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.12	-	08/01/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	5.2	20	10-15/01/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	49	120	10/01/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	5	11/01/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	8.04	100	10/01/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.52	-	10/01/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	0.007	0.2	11/01/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	11/01/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	09/01/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	11/01/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	09/01/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	11/01/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	09/01/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	12/01/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0027	0.25	16/01/24
21	Se *	mg/L		< 0.0005	0.02	16/01/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.07	1.0	11/01/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	11/01/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.19	2.0	12/01/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.35	5.0	11/01/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



## TEST REPORT

**Analysis No. :** R24-0044

**Received Date:** 09/01/24

**Customer :** Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

**Contact :** Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

**Report Date :** 06/02/24

**Analysis Date :** 08-16/01/24

**Job No. :** S670049/Jan

**Sampling Date \* :** 08/01/24

**Sampling By \* :** TET

**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0066		
				น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.06	1.0	11/01/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	11/01/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.87	5	11/01/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	10-12/01/24
	- beta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- gamma-HCH	µg/L		N.D.	Not found	10-12/01/24
	- delta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- epsilon-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor	µg/L		N.D.	Not found	10-12/01/24
	- Aldrin	µg/L		N.D.	Not found	10-12/01/24
	- Isodrin	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	10-12/01/24
	- oxy-Chlordane	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	10-12/01/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	10-12/01/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	10-12/01/24
	- Dieldrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- beta-Endosulfan	µg/L		N.D.	Not found	10-12/01/24

continue

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## TEST REPORT

Analysis No. : R24-0044

Report Date : 06/02/24

Received Date: 09/01/24

Analysis Date : 08-16/01/24

Customer : Technical Division of Thai Environmental Technic Limited

Job No. : S670049/Jan

For นิคมอุตสาหกรรมลาดกระบัง

Sampling Date \* : 08/01/24

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling By \* : TET

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0066		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
	- Endrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- Methoxychlor	µg/L		N.D.	Not found	10-12/01/24
	- Mirex	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	10-12/01/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692666 UTM 1522002

N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธีศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

06.02.24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

06.02.24





## TEST REPORT

Analysis No. : R24-0044

Received Date: 09/01/24

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 06/02/24

Analysis Date : 08-16/01/24

Job No. : S670049/Jan

Sampling Date \* : 08/01/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2401-WW0067 = yellow turbid/high black sediment

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0067		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	28.7	≤ 40	08/01/24
2	pH *	-	Electrometric Method (SM 4500 B)	8.63	5.5-9.0	08/01/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	27	300	09/01/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	21	300	09/01/24
4	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	4.9	50	09/01/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	1,030	3,000	10/01/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.28	-	08/01/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	3.2	20	10-15/01/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	25 <sup>Δ</sup>	120	10/01/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.6	5	11/01/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	2.30	100	10/01/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	1.06	-	10/01/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	11/01/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	11/01/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	09/01/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	11/01/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	09/01/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	11/01/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	09/01/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	12/01/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	< 0.0005	0.25	16/01/24
21	Se *	mg/L		< 0.0005	0.02	16/01/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	1.0	11/01/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	11/01/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	2.0	12/01/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.06	5.0	11/01/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



## TEST REPORT

**Analysis No. :** R24-0044

**Received Date:** 09/01/24

**Customer :** Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

**Contact :** Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

**Report Date :** 06/02/24

**Analysis Date :** 08-16/01/24

**Job No. :** S670049/Jan

**Sampling Date \* :** 08/01/24

**Sampling By \* :** TET

**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0067		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.04	1.0	11/01/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	11/01/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.66	5	11/01/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	10-12/01/24
	- beta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- gamma-HCH	µg/L		N.D.	Not found	10-12/01/24
	- delta-HCH	µg/L		N.D.	Not found	10-12/01/24
	- epsilon-HCH	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor	µg/L		N.D.	Not found	10-12/01/24
	- Aldrin	µg/L		N.D.	Not found	10-12/01/24
	- Isodrin	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	10-12/01/24
	- oxy-Chlordane	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	10-12/01/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	10-12/01/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	10-12/01/24
	- Dieldrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDE	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- beta-Endosulfan	µg/L		N.D.	Not found	10-12/01/24

continue

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## TEST REPORT

Analysis No. : R24-0044

Report Date : 06/02/24

Received Date: 09/01/24

Analysis Date : 08-16/01/24

Customer : Technical Division of Thai Environmental Technic Limited

Job No. : S670049/Jan

For นิคมอุตสาหกรรมลาดกระบัง

Sampling Date \* : 08/01/24

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling By \* : TET

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2401-WW0067		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
	- Endrin	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDD	µg/L		N.D.	Not found	10-12/01/24
	- 2,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- 4,4-DDT	µg/L		N.D.	Not found	10-12/01/24
	- Methoxychlor	µg/L		N.D.	Not found	10-12/01/24
	- Mirex	µg/L		N.D.	Not found	10-12/01/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	10-12/01/24

**Remarks**

- \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
- : น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184
- : BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L
- : COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L
- Δ รายงานผลการวิเคราะห์ดังกล่าวใช้สำหรับการคำนวณค่าความคลาดเคลื่อนของเครื่องตรวจวัดค่าบีโอดีหรือเครื่องตรวจวัดค่าซีโอดีตามประกาศกรมโรงงานอุตสาหกรรม เรื่อง หลักเกณฑ์การให้ความเห็นชอบให้โรงงานที่ต้องมีระบบบำบัดน้ำเสียต้องติดตั้งเครื่องมือหรือเครื่องอุปกรณ์พิเศษและเครื่องมือหรือเครื่องอุปกรณ์เพิ่มเติม (ฉบับที่ 2) พ.ศ. 2565
- N.D. = Not Detectable (Less than 0.10 µg/L)

**Method**

- (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023
- (B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิศุทธิ์ศักดิ์

**Standard**

- : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

06/02/24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

06/02/24

..... END OF REPORT .....

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL





## TEST REPORT

Analysis No. : R24-0562

Received Date: 13/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 01/03/24

Analysis Date : 12-21/02/24

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2402-WW0318 = brown turbid/high black sediment/covered with oil slick/smell

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0318 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	32.5	≤ 45	12/02/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.11	5.5-9.0	12/02/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F)	35	600	15/02/24
	Color (pH 7) *	ADMI		28	600	15/02/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	146.4	200	14/02/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	1,325	3,000	14/02/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	2.01	-	12/02/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	95.4	500	14-19/02/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	329	750	15/02/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	6.8	10	15/02/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	30.14	100	15/02/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.41	-	16/02/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	15/02/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	16/02/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	13/02/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	0.13	1.0	16/02/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/02/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	21/02/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	14/02/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0011	0.005	19/02/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0007	0.25	20/02/24
21	Se *	mg/L		< 0.0005	0.02	16/02/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.06	1.0	21/02/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	21/02/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.22	2.0	21/02/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.26	5.0	21/02/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



## TEST REPORT

Analysis No. : R24-0562

Received Date: 13/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 01/03/24

Analysis Date : 12-21/02/24

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0318		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.07	1.0	21/02/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	21/02/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	1.05	5.0	21/02/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	15-16/02/24
	- beta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- gamma-HCH	µg/L		N.D.	Not found	15-16/02/24
	- delta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- epsilon-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor	µg/L		N.D.	Not found	15-16/02/24
	- Aldrin	µg/L		N.D.	Not found	15-16/02/24
	- Isodrin	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	15-16/02/24
	- oxy-Chlordane	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	15-16/02/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	15-16/02/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	15-16/02/24
	- Dieldrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- beta-Endosulfan	µg/L		N.D.	Not found	15-16/02/24

continue

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## TEST REPORT

Analysis No. : R24-0562

Report Date : 01/03/24

Received Date: 13/02/24

Analysis Date : 12-21/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling By \* : TET

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0318		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2		
	- Endrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- Methoxychlor	µg/L		N.D.	Not found	15-16/02/24
	- Mirex	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	15-16/02/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006

: N.D. = Not Detectable (Less than 0.10 µg/L)

: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

: COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธรักษ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

01/03/24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

01/03/24





## TEST REPORT

Analysis No. : R24-0562

Received Date: 13/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 01/03/24

Analysis Date : 12-21/02/24

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2402-WW0319 = brown turbid/high black sediment/covered with oil slick/smell

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0319 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	31.2	≤ 45	12/02/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.45	5.5-9.0	12/02/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	39	600	15/02/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	27	600	15/02/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	45.8	200	14/02/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	487	3,000	14/02/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	1.43	-	12/02/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	75.4	500	14-19/02/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	265	750	15/02/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	6.5	10	15/02/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	28.40	100	15/02/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	2.14	-	16/02/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	0.001	0.2	15/02/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	16/02/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	15.50	1.0	13/02/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	16/02/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/02/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	0.03	0.75	21/02/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	14/02/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0010	0.005	19/02/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0009	0.25	20/02/24
21	Se *	mg/L		< 0.0005	0.02	16/02/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.08	1.0	21/02/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	21/02/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.22	2.0	21/02/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.11	5.0	21/02/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



## TEST REPORT

**Analysis No. :** R24-0562

**Received Date:** 13/02/24

**Customer :** Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

**Contact :** Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

**Report Date :** 01/03/24

**Analysis Date :** 12-21/02/24

**Job No. :** S670049/Feb/1

**Sampling Date \* :** 12/02/24

**Sampling By \* :** TET

**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0319		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.05	1.0	21/02/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	21/02/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.36	5.0	21/02/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	15-16/02/24
	- beta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- gamma-HCH	µg/L		N.D.	Not found	15-16/02/24
	- delta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- epsilon-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor	µg/L		N.D.	Not found	15-16/02/24
	- Aldrin	µg/L		N.D.	Not found	15-16/02/24
	- Isodrin	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	15-16/02/24
	- oxy-Chlordane	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	15-16/02/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	15-16/02/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	15-16/02/24
	- Dieldrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- beta-Endosulfan	µg/L		N.D.	Not found	15-16/02/24

continue

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## TEST REPORT

Analysis No. : R24-0562

Report Date : 01/03/24

Received Date: 13/02/24

Analysis Date : 12-21/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Job No. : S670049/Feb/1

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling Date \* : 12/02/24

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0319		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3		
	- Endrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- Methoxychlor	µg/L		N.D.	Not found	15-16/02/24
	- Mirex	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	15-16/02/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114

: N.D. = Not Detectable (Less than 0.10 µg/L)

: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

: COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรรณสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๑๑/๐๓/๒๔



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

๑๑/๐๓/๒๔





## TEST REPORT

Analysis No. : R24-0562

Received Date: 13/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 01/03/24

Analysis Date : 12-21/02/24

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2402-WW0320 = yellow turbid/slight black sediment

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0320		
				นำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.8	≤ 40	12/02/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.43	5.5-9.0	12/02/24
3	Color (Original pH) *	ADMI	} ADM I Weighted-Ordinate Spectrophotometric Method (SM 2120 F)	41	300	15/02/24
	Color (pH 7) *	ADMI		32	300	15/02/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	15.0	50	14/02/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	1,555	3,000	14/02/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.95	-	12/02/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	6.3	20	14-19/02/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	67	120	15/02/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	1.2	5	15/02/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	16.62	100	15/02/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.10	-	16/02/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	15/02/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	16/02/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	13/02/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	16/02/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/02/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	21/02/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	14/02/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	19/02/24
20	As *	mg/L	} Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0007	0.25	20/02/24
21	Se *	mg/L		< 0.0005	0.02	16/02/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.09	1.0	21/02/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	21/02/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.09	2.0	21/02/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.26	5.0	21/02/24

continue

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## TEST REPORT

**Analysis No. :** R24-0562

**Received Date:** 13/02/24

**Customer :** Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

**Contact :** Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

**Report Date :** 01/03/24

**Analysis Date :** 12-21/02/24

**Job No. :** S670049/Feb/1

**Sampling Date \* :** 12/02/24

**Sampling By \* :** TET

**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0320		
				น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.05	1.0	21/02/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	21/02/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.85	5	21/02/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	15-16/02/24
	- beta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- gamma-HCH	µg/L		N.D.	Not found	15-16/02/24
	- delta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- epsilon-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor	µg/L		N.D.	Not found	15-16/02/24
	- Aldrin	µg/L		N.D.	Not found	15-16/02/24
	- Isodrin	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	15-16/02/24
	- oxy-Chlordane	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	15-16/02/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	15-16/02/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	15-16/02/24
	- Dieldrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- beta-Endosulfan	µg/L		N.D.	Not found	15-16/02/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



## TEST REPORT

Analysis No. : R24-0562

Report Date : 01/03/24

Received Date: 13/02/24

Analysis Date : 12-21/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Job No. : S670049/Feb/1

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling Date \* : 12/02/24

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0320		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
	- Endrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- Methoxychlor	µg/L		N.D.	Not found	15-16/02/24
	- Mirex	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	15-16/02/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692666 UTM 1522002

: N.D. = Not Detectable (Less than 0.10 µg/L)

: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

: COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรรณสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

๑๑/๐๓/๒๔



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

๑๑/๐๓/๒๔





## TEST REPORT

Analysis No. : R24-0562

Received Date: 13/02/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Sample Conditions : 2402-WW0321 = yellow turbid/moderate black sediment

Report Date : 01/03/24

Analysis Date : 12-21/02/24

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0321		
				น้ำทิ้งก่อนระบายออกจาก ระบบบำบัดน้ำเสียส่วนกลาง ของนิคมฯ ระยะที่ 3		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	31.4	≤ 40	12/02/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.37	5.5-9.0	12/02/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	16	300	15/02/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	14	300	15/02/24
4	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	5.5	50	14/02/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	767	3,000	14/02/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.53	-	12/02/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2.1	20	14-19/02/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	43	120	15/02/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	1.0	5	15/02/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	3.67	100	15/02/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.20	-	16/02/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	15/02/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	16/02/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	13/02/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	16/02/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/02/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	21/02/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	14/02/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	19/02/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	< 0.0005	0.25	20/02/24
21	Se *	mg/L		< 0.0005	0.02	16/02/24
22	Ba	mg/L		< 0.05	1.0	21/02/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	21/02/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	2.0	21/02/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	5.0	21/02/24

continue

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## TEST REPORT

Analysis No. : R24-0562

Received Date: 13/02/24

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 01/03/24

Analysis Date : 12-21/02/24

Job No. : S670049/Feb/1

Sampling Date \* : 12/02/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0321		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	1.0	21/02/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	21/02/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.14	5	21/02/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	15-16/02/24
	- beta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- gamma-HCH	µg/L		N.D.	Not found	15-16/02/24
	- delta-HCH	µg/L		N.D.	Not found	15-16/02/24
	- epsilon-HCH	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor	µg/L		N.D.	Not found	15-16/02/24
	- Aldrin	µg/L		N.D.	Not found	15-16/02/24
	- Isodrin	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	15-16/02/24
	- oxy-Chlordane	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	15-16/02/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	15-16/02/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	15-16/02/24
	- Dieldrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDE	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- beta-Endosulfan	µg/L		N.D.	Not found	15-16/02/24

continue

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## TEST REPORT

Analysis No. : R24-0562

Report Date : 01/03/24

Received Date: 13/02/24

Analysis Date : 12-21/02/24

Customer : Technical Division of Thai Environmental Technic Limited

Job No. : S670049/Feb/1

For นิคมอุตสาหกรรมลาดกระบัง

Sampling Date \* : 12/02/24

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling By \* : TET

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2402-WW0321		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
	- Endrin	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDD	µg/L		N.D.	Not found	15-16/02/24
	- 2,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- 4,4-DDT	µg/L		N.D.	Not found	15-16/02/24
	- Methoxychlor	µg/L		N.D.	Not found	15-16/02/24
	- Mirex	µg/L		N.D.	Not found	15-16/02/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	15-16/02/24

Remarks \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184

: N.D. = Not Detectable (Less than 0.10 µg/L)

: BOD มีค่าปริมาณค่าสูงสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

: COD มีค่าปริมาณค่าสูงสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสูตรศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

01/03/24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

01/03/24

..... END OF REPORT .....





## TEST REPORT

**Analysis No. :** R24-0906  
**Received Date:** 12/03/24  
**Customer :** Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง  
**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520  
**Contact :** Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220  
**Sample Conditions :** 2403-WW0322 = yellow turbid/high black sediment/smell

**Report Date :** 22/03/24  
**Analysis Date :** 11-18/03/24  
**Job No. :** S670049/Mar  
**Sampling Date \* :** 11/03/24  
**Sampling By \* :** TET  
**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0322 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	36.3	≤ 45	11/03/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.21	5.5-9.0	11/03/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	136	600	13/03/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	115	600	13/03/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	115.1	200	18/03/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	1,562	3,000	15/03/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	1.57	-	11/03/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	91.0	500	13-18/03/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	302	750	14/03/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	5.0	10	14/03/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	25.21	100	15/03/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.63	-	15/03/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN B/E)	< 0.001	0.2	15/03/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	0.055	1.0	14/03/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	0.06	1.0	15/03/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	0.09	1.0	14/03/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/03/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	18/03/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	12/03/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0012	0.005	13/03/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0008	0.25	14/03/24
21	Se *	mg/L		< 0.0005	0.02	15/03/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	1.0	18/03/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	18/03/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.32	2.0	18/03/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.17	5.0	18/03/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



## TEST REPORT

**Analysis No. :** R24-0906

**Received Date:** 12/03/24

**Customer :** Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

**Address :** 94 ถนนฉลอมกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

**Contact :** Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

**Report Date :** 22/03/24

**Analysis Date :** 11-18/03/24

**Job No. :** S670049/Mar

**Sampling Date \* :** 11/03/24

**Sampling By \* :** TET

**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0322		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.07	1.0	18/03/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	18/03/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	1.40	5.0	18/03/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	13-15/03/24
	- beta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- gamma-HCH	µg/L		N.D.	Not found	13-15/03/24
	- delta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- epsilon-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor	µg/L		N.D.	Not found	13-15/03/24
	- Aldrin	µg/L		N.D.	Not found	13-15/03/24
	- Isodrin	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	13-15/03/24
	- oxy-Chlordane	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	13-15/03/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	13-15/03/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	13-15/03/24
	- Dieldrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- beta-Endosulfan	µg/L		N.D.	Not found	13-15/03/24

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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## TEST REPORT

**Analysis No. :** R24-0906 **Report Date :** 22/03/24  
**Received Date:** 12/03/24 **Analysis Date :** 11-18/03/24  
**Customer :** Technical Division of Thai Environmental Technic Limited **Job No. :** S670049/Mar  
For นิคมอุตสาหกรรมลาดกระบัง **Sampling Date \* :** 11/03/24  
**Address :** 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง กรุงเทพมหานคร 10520 **Sampling By \* :** TET  
**Contact :** Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220 **Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0322		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2		
	- Endrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- Methoxychlor	µg/L		N.D.	Not found	13-15/03/24
	- Mirex	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	13-15/03/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"  
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006  
: N.D. = Not Detectable (Less than 0.10 µg/L)  
: BOD มีค่าปริมาณค่าสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L  
: COD มีค่าปริมาณค่าสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

**Method** (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023  
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุมิศักดิ์

**Standard** : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
22/03/24



Approved by

Mrs. Pornip Pethshee  
Laboratory Manager  
22/03/24

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## TEST REPORT

Analysis No. : R24-0906

Received Date: 12/03/24

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/03/24

Analysis Date : 11-18/03/24

Job No. : S670049/Mar

Sampling Date \* : 11/03/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2403-WW0323 = black turbid/high black sediment/smell

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0323		
				น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	34.5	≤ 45	11/03/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.91	5.5-9.0	11/03/24
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F)	315	600	13/03/24
	Color (pH 7) *	ADMI		290	600	13/03/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	65.8	200	18/03/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	963	3,000	15/03/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	1.03	-	11/03/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	113.0	500	13-18/03/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	371	750	14/03/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	7.6	10	14/03/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	23.18	100	15/03/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	6.47	-	15/03/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	15/03/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	0.027	1.0	14/03/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	4.11	1.0	15/03/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	0.06	1.0	14/03/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/03/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	0.08	0.75	15/03/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	12/03/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0011	0.005	13/03/24
20	As *	mg/L	} Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	0.0010	0.25	14/03/24
21	Se *	mg/L		< 0.0005	0.02	15/03/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.07	1.0	15/03/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	15/03/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.17	2.0	15/03/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.12	5.0	15/03/24

continue

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## TEST REPORT

Analysis No. : R24-0906

Received Date: 12/03/24

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/03/24

Analysis Date : 11-18/03/24

Job No. : S670049/Mar

Sampling Date \* : 11/03/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0323		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.06	1.0	15/03/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	15/03/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	1.64	5.0	15/03/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	13-15/03/24
	- beta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- gamma-HCH	µg/L		N.D.	Not found	13-15/03/24
	- delta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- epsilon-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor	µg/L		N.D.	Not found	13-15/03/24
	- Aldrin	µg/L		N.D.	Not found	13-15/03/24
	- Isodrin	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	13-15/03/24
	- oxy-Chlordane	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	13-15/03/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	13-15/03/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	13-15/03/24
	- Dieldrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- beta-Endosulfan	µg/L		N.D.	Not found	13-15/03/24

continue

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## TEST REPORT

**Analysis No. :** R24-0906 **Report Date :** 22/03/24  
**Received Date:** 12/03/24 **Analysis Date :** 11-18/03/24  
**Customer :** Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง **Job No. :** S670049/Mar  
**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520 **Sampling Date \* :** 11/03/24  
**Contact :** Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220 **Sampling By \* :** TET  
**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0323		
				น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3		
	- Endrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- Methoxychlor	µg/L		N.D.	Not found	13-15/03/24
	- Mirex	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	13-15/03/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"  
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114  
: N.D. = Not Detectable (Less than 0.10 µg/L)  
: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L  
: COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

**Method** (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023  
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

**Standard** : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
22, 03, 24



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
22, 03, 24

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## TEST REPORT

Analysis No. : R24-0906

Received Date: 12/03/24

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/03/24

Analysis Date : 11-18/03/24

Job No. : S670049/Mar

Sampling Date \* : 11/03/24

Sampling By \* : TET

Type of Sample : Wastewater

Sample Conditions : 2403-WW0324 = yellow turbid/high white sediment

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0324		
				น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	37.1	≤ 40	11/03/24
2	pH *	-	Electrometric Method (SM 4500 B)	7.84	5.5-9.0	11/03/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	90	300	13/03/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	77	300	13/03/24
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	14.4	50	18/03/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	2,095	3,000	15/03/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	3.85	-	11/03/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	6.5	20	13-18/03/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	77	120	14/03/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	5	14/03/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	15.42	100	15/03/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.18	-	15/03/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	15/03/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	14/03/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	15/03/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	14/03/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/03/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	15/03/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	12/03/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	13/03/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	< 0.0005	0.25	14/03/24
21	Se *	mg/L		< 0.0005	0.02	15/03/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.08	1.0	15/03/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	15/03/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.10	2.0	15/03/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.51	5.0	15/03/24

continue

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## TEST REPORT

Analysis No. : R24-0906

Received Date: 12/03/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/03/24

Analysis Date : 11-18/03/24

Job No. : S670049/Mar

Sampling Date \* : 11/03/24

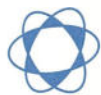
Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0324		
				น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.05	1.0	15/03/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	15/03/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	1.43	5	15/03/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	13-15/03/24
	- beta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- gamma-HCH	µg/L		N.D.	Not found	13-15/03/24
	- delta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- epsilon-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor	µg/L		N.D.	Not found	13-15/03/24
	- Aldrin	µg/L		N.D.	Not found	13-15/03/24
	- Isodrin	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	13-15/03/24
	- oxy-Chlordane	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	13-15/03/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	13-15/03/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	13-15/03/24
	- Dieldrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- beta-Endosulfan	µg/L		N.D.	Not found	13-15/03/24

continue

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## TEST REPORT

**Analysis No. :** R24-0906  
**Received Date:** 12/03/24  
**Customer :** Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง  
**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520  
**Contact :** Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

**Report Date :** 22/03/24  
**Analysis Date :** 11-18/03/24  
**Job No. :** S670049/Mar  
**Sampling Date \* :** 11/03/24  
**Sampling By \* :** TET  
**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0324		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2		
	- Endrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- Methoxychlor	µg/L		N.D.	Not found	13-15/03/24
	- Mirex	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	13-15/03/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"  
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692546 UTM 1521946  
: N.D. = Not Detectable (Less than 0.10 µg/L)  
: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L  
: COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

**Method** (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023  
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

**Standard** : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
22/03/24



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
22/03/24

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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## TEST REPORT

**Analysis No. :** R24-0906  
**Received Date:** 12/03/24  
**Customer :** Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง  
**Address :** 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520  
**Contact :** Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220  
**Sample Conditions :** 2403-WW0325 = yellow turbid/high white sediment

**Report Date :** 22/03/24  
**Analysis Date :** 11-18/03/24  
**Job No. :** S670049/Mar  
**Sampling Date \* :** 11/03/24  
**Sampling By \* :** TET  
**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0325		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	32.1	≤ 40	11/03/24
2	pH *	-	Electrometric Method (SM 4500 B)	8.13	5.5-9.0	11/03/24
3	Color (Original pH) *	ADMI	ADMI Weighted-Ordinate	51	300	13/03/24
	Color (pH 7) *	ADMI	Spectrophotometric Method (SM 2120 F)	49	300	13/03/24
4	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	9.0	50	18/03/24
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	938	3,000	15/03/24
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	2.72	-	11/03/24
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2.9	20	13-18/03/24
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	30	120	14/03/24
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.7	5	14/03/24
10	TKN *	mg/L	Macro-Kjeldahl/Titrimetric Method (SM 4500-N <sub>org</sub> B&4500-NH <sub>3</sub> C)	1.51	100	15/03/24
11	Total P *	mg/L	Ascorbic Acid (Colorimetric) (SM 4500-P E)	0.53	-	15/03/24
12	Cyanide *	mg/L	Distillation, Colorimetric Method (SM 4500-CN <sup>-</sup> B/E)	< 0.001	0.2	15/03/24
13	Phenols *	mg/L	Distillation, Direct Photometric Method (SM 5530 D)	< 0.001	1.0	14/03/24
14	Sulfide *	mg/L	ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S <sup>2-</sup> D)	< 0.01	1.0	15/03/24
15	Formaldehyde *	mg/L	Distillation, Colorimetric Method <sup>(B)</sup>	< 0.01	1.0	14/03/24
16	Free Chlorine *	mg/L	DPD Ferrous Titrimetric (SM 4500-Cl <sub>2</sub> F)	< 0.01	1.0	13/03/24
17	Cr <sup>+3</sup> *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation	< 0.02	0.75	15/03/24
18	Cr <sup>+6</sup> *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	12/03/24
19	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	13/03/24
20	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114 C)	< 0.0005	0.25	14/03/24
21	Se *	mg/L		< 0.0005	0.02	15/03/24
22	Ba	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	1.0	15/03/24
23	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	15/03/24
24	Cu	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	2.0	15/03/24
25	Mn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	5.0	15/03/24

continue

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## TEST REPORT

Analysis No. : R24-0906

Received Date: 12/03/24

Customer : Technical Division of Thai Environmental Technic Limited  
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/03/24

Analysis Date : 11-18/03/24

Job No. : S670049/Mar

Sampling Date \* : 11/03/24

Sampling By \* : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0325		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
26	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	1.0	15/03/24
27	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	15/03/24
28	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.07	5	15/03/24
29	Pesticide *		LLE, GC/ECD (SM 6630 B)			
	- alpha-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Hexachlorobenzene	µg/L		N.D.	Not found	13-15/03/24
	- beta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- gamma-HCH	µg/L		N.D.	Not found	13-15/03/24
	- delta-HCH	µg/L		N.D.	Not found	13-15/03/24
	- epsilon-HCH	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor	µg/L		N.D.	Not found	13-15/03/24
	- Aldrin	µg/L		N.D.	Not found	13-15/03/24
	- Isodrin	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-exo-epoxide (cis-isomer B)	µg/L		N.D.	Not found	13-15/03/24
	- oxy-Chlordane	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor-endo-epoxide (trans-isomer A)	µg/L		N.D.	Not found	13-15/03/24
	- trans-chlordane (gamma)	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- alpha-Endosulfan	µg/L		N.D.	Not found	13-15/03/24
	- cis-Chlordane (alpha)	µg/L		N.D.	Not found	13-15/03/24
	- Dieldrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDE	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- beta-Endosulfan	µg/L		N.D.	Not found	13-15/03/24

continue

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## TEST REPORT

**Analysis No. :** R24-0906  
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**Contact :** Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

**Report Date :** 22/03/24  
**Analysis Date :** 11-18/03/24  
**Job No. :** S670049/Mar  
**Sampling Date \* :** 11/03/24  
**Sampling By \* :** TET  
**Type of Sample :** Wastewater

Item	Parameter	Unit	Method <sup>(A)</sup>	Result	Standard	Analysis Date
				2403-WW0325		
				น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3		
	- Endrin	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDD	µg/L		N.D.	Not found	13-15/03/24
	- 2,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- 4,4-DDT	µg/L		N.D.	Not found	13-15/03/24
	- Methoxychlor	µg/L		N.D.	Not found	13-15/03/24
	- Mirex	µg/L		N.D.	Not found	13-15/03/24
	- Heptachlor Epoxide	µg/L		N.D.	Not found	13-15/03/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"  
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184  
: N.D. = Not Detectable (Less than 0.10 µg/L)  
: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L  
: COD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 40 mg/L

**Method** (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023  
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิทูรชิตศักดิ์

**Standard** : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
22/03/24



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
22/03/24

END OF REPORT

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