

ภาคผนวก



ภาคผนวก ก

ผลการติดตามตรวจสอบ

## ภาคผนวก ก-1

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ผลการติดตามตรวจสอบคุณภาพอากาศในบรรยากาศ

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสามแยก (A1)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* , \*\* , \*\*\*  
**SAMPLING TIME** : \* , \*\* , \*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052229  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0001 - T24AL217-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านสามแยก (A1)		
			* T24AL217-0001	** T24AL217-0002	*** T24AL217-0003
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.040	0.029
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.015	0.030	0.019
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
\* : SAMPLING FROM 10:00 HOUR ON MAY 18, 2024 TO 10:00 HOUR ON MAY 19, 2024.  
\*\* : SAMPLING FROM 10:00 HOUR ON MAY 19, 2024 TO 10:00 HOUR ON MAY 20, 2024.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON MAY 20, 2024 TO 10:00 HOUR ON MAY 21, 2024.

*Budsakorn* ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสามแยก (A1)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING TIME** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052232  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0004 - T24AL217-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านสามแยก (A1)			
			*	**	***	****
			T24AL217-0004	T24AL217-0005	T24AL217-0006	T24AL217-0007
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.024	0.023	0.035	0.022
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.012	0.013	0.021	0.010
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
\* : SAMPLING FROM 10:00 HOUR ON MAY 21, 2024 TO 10:00 HOUR ON MAY 22, 2024.  
\*\* : SAMPLING FROM 10:00 HOUR ON MAY 22, 2024 TO 10:00 HOUR ON MAY 23, 2024.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON MAY 23, 2024 TO 10:00 HOUR ON MAY 24, 2024.  
\*\*\*\* : SAMPLING FROM 10:00 HOUR ON MAY 24, 2024 TO 10:00 HOUR ON MAY 25, 2024.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.	<b>RECEIVED DATE</b>	: MAY 18-25, 2024
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120	<b>ANALYTICAL DATE</b>	: MAY 18-25, 2024
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th	<b>ISSUE DATE</b>	: MAY 29, 2024
<b>MEASURING PLACE</b>	: บ้านสามแยก (A1)	<b>REPORT NO.</b>	: 2024-U046541
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2023-009915
<b>MEASURING DATE</b>	: MAY 18-25, 2024	<b>ANALYSIS NO.</b>	: T24AL217-0001 - T24AL217-0007
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE		
<b>MEASURED BY</b>	: MR SUPHAKORN SUANSRI		

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านสามแยก (A1)		
	MAY 18 - 19, 2024 T24AL217-0001	MAY 19 - 20, 2024 T24AL217-0002	MAY 20 - 21, 2024 T24AL217-0003
08:00-09:00 HOUR	0.0231	0.0223	0.0203
09:00-10:00 HOUR	0.0232	0.0227	0.0212
10:00-11:00 HOUR	0.0225	0.0225	0.0216
11:00-12:00 HOUR	0.0224	0.0225	0.0221
12:00-13:00 HOUR	0.0225	0.0227	0.0221
13:00-14:00 HOUR	0.0228	0.0231	0.0216
14:00-15:00 HOUR	0.0225	0.0231	0.0206
15:00-16:00 HOUR	0.0215	0.0232	0.0197
16:00-17:00 HOUR	0.0202	0.0233	0.0194
17:00-18:00 HOUR	0.0190	0.0237	0.0190
18:00-19:00 HOUR	0.0185	0.0237	0.0184
19:00-20:00 HOUR	0.0191	0.0237	0.0180
20:00-21:00 HOUR	0.0206	0.0236	0.0189
21:00-22:00 HOUR	0.0228	0.0240	0.0210
22:00-23:00 HOUR	0.0231	0.0239	0.0225
23:00-00:00 HOUR	0.0218	0.0227	0.0225
00:00-01:00 HOUR	0.0184	0.0196	0.0203
01:00-02:00 HOUR	0.0158	0.0165	0.0183
02:00-03:00 HOUR	0.0146	0.0149	0.0167
03:00-04:00 HOUR	0.0149	0.0148	0.0166
04:00-05:00 HOUR	0.0163	0.0159	0.0175
05:00-06:00 HOUR	0.0174	0.0167	0.0190
06:00-07:00 HOUR	0.0190	0.0180	0.0207
07:00-08:00 HOUR	0.0208	0.0192	0.0223



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	มาตรฐานแบบ (A1)			
	MAY 21 - 22, 2024 T24AL217-0004	MAY 22 - 23, 2024 T24AL217-0005	MAY 23 - 24, 2024 T24AL217-0006	MAY 24 - 25, 2024 T24AL217-0007
08:00-09:00 HOUR	0.0235	0.0242	0.0211	0.0199
09:00-10:00 HOUR	0.0243	0.0247	0.0224	0.0204
10:00-11:00 HOUR	0.0248	0.0251	0.0231	0.0208
11:00-12:00 HOUR	0.0255	0.0253	0.0239	0.0215
12:00-13:00 HOUR	0.0263	0.0260	0.0243	0.0225
13:00-14:00 HOUR	0.0266	0.0267	0.0248	0.0234
14:00-15:00 HOUR	0.0260	0.0270	0.0245	0.0237
15:00-16:00 HOUR	0.0245	0.0265	0.0240	0.0237
16:00-17:00 HOUR	0.0233	0.0254	0.0234	0.0238
17:00-18:00 HOUR	0.0225	0.0245	0.0234	0.0241
18:00-19:00 HOUR	0.0222	0.0230	0.0239	0.0242
19:00-20:00 HOUR	0.0224	0.0220	0.0239	0.0236
20:00-21:00 HOUR	0.0232	0.0215	0.0241	0.0224
21:00-22:00 HOUR	0.0242	0.0226	0.0241	0.0220
22:00-23:00 HOUR	0.0248	0.0228	0.0243	0.0217
23:00-00:00 HOUR	0.0240	0.0227	0.0236	0.0222
00:00-01:00 HOUR	0.0219	0.0206	0.0211	0.0240
01:00-02:00 HOUR	0.0189	0.0191	0.0185	0.0216
02:00-03:00 HOUR	0.0170	0.0180	0.0166	0.0194
03:00-04:00 HOUR	0.0166	0.0179	0.0161	0.0182
04:00-05:00 HOUR	0.0177	0.0184	0.0161	0.0186
05:00-06:00 HOUR	0.0193	0.0185	0.0161	0.0191
06:00-07:00 HOUR	0.0214	0.0190	0.0171	0.0201
07:00-08:00 HOUR	0.0230	0.0198	0.0184	0.0207

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสามแยก (A1)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 10, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052230  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0001 - T24AL217-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านสามแยก (A1)		
			* T24AL217-0001	** T24AL217-0002	*** T24AL217-0003
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD	0.001	< 0.001	< 0.001
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

**REMARK**

**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 10:00 HOUR ON MAY 18, 2024 TO 10:00 HOUR ON MAY 19, 2024.  
\*\* : SAMPLING FROM 10:00 HOUR ON MAY 19, 2024 TO 10:00 HOUR ON MAY 20, 2024.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON MAY 20, 2024 TO 10:00 HOUR ON MAY 21, 2024.

*Budsakorn ✓*

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LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสามแยก (A1)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 10, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052233  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0004 - T24AL217-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านสามแยก (A1)			
			*	**	***	****
			T24AL217-0004	T24AL217-0005	T24AL217-0006	T24AL217-0007
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD	0.002	< 0.001	0.001	< 0.001
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 10:00 HOUR ON MAY 21, 2024 TO 10:00 HOUR ON MAY 22, 2024.  
\*\* : SAMPLING FROM 10:00 HOUR ON MAY 22, 2024 TO 10:00 HOUR ON MAY 23, 2024.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON MAY 23, 2024 TO 10:00 HOUR ON MAY 24, 2024.  
\*\*\*\* : SAMPLING FROM 10:00 HOUR ON MAY 24, 2024 TO 10:00 HOUR ON MAY 25, 2024.

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## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสวนหลวง (A2)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052234  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0008 - T24AL217-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านสวนหลวง (A2)		
			* T24AL217-0008	** T24AL217-0009	*** T24AL217-0010
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.027	0.027	0.024
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.016	0.015	0.013
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
\* : SAMPLING FROM 09:30 HOUR ON MAY 18, 2024 TO 09:30 HOUR ON MAY 19, 2024.  
\*\* : SAMPLING FROM 09:30 HOUR ON MAY 19, 2024 TO 09:30 HOUR ON MAY 20, 2024.  
\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 20, 2024 TO 09:30 HOUR ON MAY 21, 2024.

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LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสวนหลาว (A2)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052236  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0011 - T24AL217-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านสวนหลาว (A2)			
			*	**	***	****
			T24AL217-0011	T24AL217-0012	T24AL217-0013	T24AL217-0014
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.018	0.018	0.030	0.017
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.007	0.008	0.019	0.007
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
\* : SAMPLING FROM 09:30 HOUR ON MAY 21, 2024 TO 09:30 HOUR ON MAY 22, 2024.  
\*\* : SAMPLING FROM 09:30 HOUR ON MAY 22, 2024 TO 09:30 HOUR ON MAY 23, 2024.  
\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 23, 2024 TO 09:30 HOUR ON MAY 24, 2024.  
\*\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 24, 2024 TO 09:30 HOUR ON MAY 25, 2024.

*Budsakorn ✓*  
(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.	<b>RECEIVED DATE</b>	: MAY 18-25, 2024
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120	<b>ANALYTICAL DATE</b>	: MAY 18-25, 2024
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th	<b>ISSUE DATE</b>	: MAY 29, 2024
<b>MEASURING PLACE</b>	: บ้านสวนหลวง (A2)	<b>REPORT NO.</b>	: 2024-U046544
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2023-009915
<b>MEASURING DATE</b>	: MAY 18-25, 2024	<b>ANALYSIS NO.</b>	: T24AL217-0008 - T24AL217-0014
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE		
<b>MEASURED BY</b>	: MR SUPHAKORN SUANSRI		

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านสวนหลวง (A2)		
	MAY 18 - 19, 2024 T24AL217-0008	MAY 19 - 20, 2024 T24AL217-0009	MAY 20 - 21, 2024 T24AL217-0010
08:00-09:00 HOUR	0.0257	0.0267	0.0264
09:00-10:00 HOUR	0.0267	0.0275	0.0268
10:00-11:00 HOUR	0.0274	0.0270	0.0273
11:00-12:00 HOUR	0.0277	0.0262	0.0285
12:00-13:00 HOUR	0.0281	0.0248	0.0294
13:00-14:00 HOUR	0.0286	0.0241	0.0299
14:00-15:00 HOUR	0.0290	0.0225	0.0295
15:00-16:00 HOUR	0.0290	0.0218	0.0288
16:00-17:00 HOUR	0.0284	0.0206	0.0281
17:00-18:00 HOUR	0.0279	0.0207	0.0276
18:00-19:00 HOUR	0.0271	0.0205	0.0269
19:00-20:00 HOUR	0.0264	0.0216	0.0260
20:00-21:00 HOUR	0.0258	0.0232	0.0254
21:00-22:00 HOUR	0.0263	0.0266	0.0261
22:00-23:00 HOUR	0.0273	0.0281	0.0268
23:00-00:00 HOUR	0.0272	0.0273	0.0263
00:00-01:00 HOUR	0.0250	0.0233	0.0234
01:00-02:00 HOUR	0.0215	0.0193	0.0202
02:00-03:00 HOUR	0.0191	0.0169	0.0183
03:00-04:00 HOUR	0.0181	0.0164	0.0176
04:00-05:00 HOUR	0.0190	0.0179	0.0186
05:00-06:00 HOUR	0.0201	0.0201	0.0189
06:00-07:00 HOUR	0.0224	0.0231	0.0206
07:00-08:00 HOUR	0.0245	0.0252	0.0221





TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านสวนหลวง (A2)			
	MAY 21 - 22, 2024 T24AL217-0011	MAY 22 - 23, 2024 T24AL217-0012	MAY 23 - 24, 2024 T24AL217-0013	MAY 24 - 25, 2024 T24AL217-0014
08:00-09:00 HOUR	0.0243	0.0266	0.0240	0.0258
09:00-10:00 HOUR	0.0257	0.0273	0.0253	0.0273
10:00-11:00 HOUR	0.0264	0.0274	0.0263	0.0274
11:00-12:00 HOUR	0.0266	0.0274	0.0265	0.0268
12:00-13:00 HOUR	0.0257	0.0271	0.0261	0.0260
13:00-14:00 HOUR	0.0235	0.0263	0.0249	0.0252
14:00-15:00 HOUR	0.0206	0.0244	0.0231	0.0240
15:00-16:00 HOUR	0.0183	0.0216	0.0217	0.0229
16:00-17:00 HOUR	0.0175	0.0193	0.0207	0.0216
17:00-18:00 HOUR	0.0172	0.0186	0.0207	0.0199
18:00-19:00 HOUR	0.0181	0.0191	0.0211	0.0173
19:00-20:00 HOUR	0.0198	0.0204	0.0224	0.0184
20:00-21:00 HOUR	0.0232	0.0224	0.0245	0.0199
21:00-22:00 HOUR	0.0265	0.0250	0.0273	0.0243
22:00-23:00 HOUR	0.0286	0.0260	0.0283	0.0260
23:00-00:00 HOUR	0.0277	0.0251	0.0275	0.0296
00:00-01:00 HOUR	0.0244	0.0222	0.0238	0.0243
01:00-02:00 HOUR	0.0204	0.0198	0.0206	0.0220
02:00-03:00 HOUR	0.0180	0.0184	0.0179	0.0201
03:00-04:00 HOUR	0.0184	0.0185	0.0168	0.0191
04:00-05:00 HOUR	0.0205	0.0196	0.0168	0.0194
05:00-06:00 HOUR	0.0228	0.0202	0.0172	0.0202
06:00-07:00 HOUR	0.0244	0.0214	0.0195	0.0220
07:00-08:00 HOUR	0.0257	0.0223	0.0224	0.0231

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสวนหลาว (A2)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 10, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052235  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0008 - T24AL217-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านสวนหลาว (A2)		
			* T24AL217-0008	** T24AL217-0009	*** T24AL217-0010
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD	0.002	< 0.001	< 0.001
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:30 HOUR ON MAY 18, 2024 TO 09:30 HOUR ON MAY 19, 2024.  
\*\* : SAMPLING FROM 09:30 HOUR ON MAY 19, 2024 TO 09:30 HOUR ON MAY 20, 2024.  
\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 20, 2024 TO 09:30 HOUR ON MAY 21, 2024.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านสวนหลาว (A2)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 10, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052238  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0011 - T24AL217-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านสวนหลาว (A2)			
			*	**	***	****
			T24AL217-0011	T24AL217-0012	T24AL217-0013	T24AL217-0014
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD	< 0.001	< 0.001	< 0.001	< 0.001
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
 \* : SAMPLING FROM 09:30 HOUR ON MAY 21, 2024 TO 09:30 HOUR ON MAY 22, 2024.  
 \*\* : SAMPLING FROM 09:30 HOUR ON MAY 22, 2024 TO 09:30 HOUR ON MAY 23, 2024.  
 \*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 23, 2024 TO 09:30 HOUR ON MAY 24, 2024.  
 \*\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 24, 2024 TO 09:30 HOUR ON MAY 25, 2024.

*Budsakorn* ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านนิคมสร้างตนเอง (A3)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052239  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0015 - T24AL217-0017

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านนิคมสร้างตนเอง (A3)		
			* T24AL217-0015	** T24AL217-0016	*** T24AL217-0017
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.026	0.031	0.045
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.015	0.017	0.018
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
\* : SAMPLING FROM 09:00 HOUR ON MAY 18, 2024 TO 09:00 HOUR ON MAY 19, 2024.  
\*\* : SAMPLING FROM 09:00 HOUR ON MAY 19, 2024 TO 09:00 HOUR ON MAY 20, 2024.  
\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 20, 2024 TO 09:00 HOUR ON MAY 21, 2024.

*Budsakorn* ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านนิคมสร้างตนเอง (A3)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052241  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0018 - T24AL217-0021

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านนิคมสร้างตนเอง (A3)			
			*	**	***	****
			T24AL217-0018	T24AL217-0019	T24AL217-0020	T24AL217-0021
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.024	0.031	0.034	0.028
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.011	0.009	0.023	0.018
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
\* : SAMPLING FROM 09:00 HOUR ON MAY 21, 2024 TO 09:00 HOUR ON MAY 22, 2024.  
\*\* : SAMPLING FROM 09:00 HOUR ON MAY 22, 2024 TO 09:00 HOUR ON MAY 23, 2024.  
\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 23, 2024 TO 09:00 HOUR ON MAY 24, 2024.  
\*\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 24, 2024 TO 09:00 HOUR ON MAY 25, 2024.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.	<b>RECEIVED DATE</b>	: MAY 18-25, 2024
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120	<b>ANALYTICAL DATE</b>	: MAY 18-25, 2024
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th	<b>ISSUE DATE</b>	: MAY 29, 2024
<b>MEASURING PLACE</b>	: บ้านนิคมสร้างตนเอง (A3)	<b>REPORT NO.</b>	: 2024-U046546
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2023-009915
<b>MEASURING DATE</b>	: MAY 18-25, 2024	<b>ANALYSIS NO.</b>	: T24AL217-0015 - T24AL217-0021
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE		
<b>MEASURED BY</b>	: MR SUPHAKORN SUANSRI		

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านนิคมสร้างตนเอง (A3)		
	MAY 18 - 19, 2024 T24AL217-0015	MAY 19 - 20, 2024 T24AL217-0016	MAY 20 - 21, 2024 T24AL217-0017
08:00-09:00 HOUR	0.0217	0.0232	0.0210
09:00-10:00 HOUR	0.0223	0.0227	0.0219
10:00-11:00 HOUR	0.0228	0.0221	0.0224
11:00-12:00 HOUR	0.0231	0.0215	0.0228
12:00-13:00 HOUR	0.0228	0.0206	0.0229
13:00-14:00 HOUR	0.0221	0.0197	0.0232
14:00-15:00 HOUR	0.0206	0.0187	0.0234
15:00-16:00 HOUR	0.0195	0.0179	0.0240
16:00-17:00 HOUR	0.0184	0.0176	0.0241
17:00-18:00 HOUR	0.0184	0.0180	0.0243
18:00-19:00 HOUR	0.0192	0.0189	0.0238
19:00-20:00 HOUR	0.0205	0.0201	0.0237
20:00-21:00 HOUR	0.0221	0.0212	0.0235
21:00-22:00 HOUR	0.0232	0.0226	0.0241
22:00-23:00 HOUR	0.0240	0.0236	0.0242
23:00-00:00 HOUR	0.0240	0.0239	0.0239
00:00-01:00 HOUR	0.0229	0.0219	0.0224
01:00-02:00 HOUR	0.0209	0.0192	0.0204
02:00-03:00 HOUR	0.0192	0.0170	0.0188
03:00-04:00 HOUR	0.0185	0.0163	0.0179
04:00-05:00 HOUR	0.0194	0.0168	0.0177
05:00-06:00 HOUR	0.0207	0.0174	0.0178
06:00-07:00 HOUR	0.0223	0.0185	0.0188
07:00-08:00 HOUR	0.0231	0.0196	0.0200





TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านนิคมสร้างตนเอง (A3)			
	MAY 21 - 22, 2024 T24AL217-0018	MAY 22 - 23, 2024 T24AL217-0019	MAY 23 - 24, 2024 T24AL217-0020	MAY 24 - 25, 2024 T24AL217-0021
08:00-09:00 HOUR	0.0212	0.0214	0.0225	0.0220
09:00-10:00 HOUR	0.0220	0.0228	0.0228	0.0225
10:00-11:00 HOUR	0.0223	0.0240	0.0229	0.0223
11:00-12:00 HOUR	0.0218	0.0242	0.0228	0.0221
12:00-13:00 HOUR	0.0208	0.0235	0.0227	0.0212
13:00-14:00 HOUR	0.0196	0.0224	0.0222	0.0208
14:00-15:00 HOUR	0.0189	0.0208	0.0214	0.0205
15:00-16:00 HOUR	0.0188	0.0194	0.0203	0.0209
16:00-17:00 HOUR	0.0187	0.0186	0.0193	0.0212
17:00-18:00 HOUR	0.0186	0.0193	0.0182	0.0215
18:00-19:00 HOUR	0.0188	0.0211	0.0174	0.0215
19:00-20:00 HOUR	0.0197	0.0230	0.0177	0.0216
20:00-21:00 HOUR	0.0211	0.0242	0.0192	0.0218
21:00-22:00 HOUR	0.0223	0.0249	0.0221	0.0226
22:00-23:00 HOUR	0.0224	0.0250	0.0234	0.0230
23:00-00:00 HOUR	0.0216	0.0247	0.0230	0.0237
00:00-01:00 HOUR	0.0196	0.0231	0.0201	0.0220
01:00-02:00 HOUR	0.0175	0.0210	0.0175	0.0199
02:00-03:00 HOUR	0.0158	0.0189	0.0156	0.0180
03:00-04:00 HOUR	0.0155	0.0179	0.0153	0.0169
04:00-05:00 HOUR	0.0165	0.0180	0.0162	0.0164
05:00-06:00 HOUR	0.0175	0.0185	0.0175	0.0165
06:00-07:00 HOUR	0.0189	0.0199	0.0193	0.0176
07:00-08:00 HOUR	0.0198	0.0211	0.0208	0.0193

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านนิคมสร้างตนเอง (A3)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\*\*  
**SAMPLING TIME** : \* \*\* \*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS SUWAN KONGTHONG  
**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 10, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052240  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0015 - T24AL217-0017

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านนิคมสร้างตนเอง (A3)		
			* T24AL217-0015	** T24AL217-0016	*** T24AL217-0017
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD	< 0.001	< 0.001	< 0.001
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

### REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:00 HOUR ON MAY 18, 2024 TO 09:00 HOUR ON MAY 19, 2024.  
\*\* : SAMPLING FROM 09:00 HOUR ON MAY 19, 2024 TO 09:00 HOUR ON MAY 20, 2024.  
\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 20, 2024 TO 09:00 HOUR ON MAY 21, 2024.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : บ้านนิคมสร้างตนเอง (A3)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING TIME** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING BY** : MR SUPHAKORN SUANSRI  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 10, 2024  
**ISSUE DATE** : JUNE 13, 2024  
**REPORT NO.** : 2024-U052242  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL217-0018 - T24AL217-0021

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านนิคมสร้างตนเอง (A3)			
			*	**	***	****
			T24AL217-0018	T24AL217-0019	T24AL217-0020	T24AL217-0021
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD	0.001	0.001	< 0.001	< 0.001
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

**REMARK**  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:00 HOUR ON MAY 21, 2024 TO 09:00 HOUR ON MAY 22, 2024.  
\*\* : SAMPLING FROM 09:00 HOUR ON MAY 22, 2024 TO 09:00 HOUR ON MAY 23, 2024.  
\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 23, 2024 TO 09:00 HOUR ON MAY 24, 2024.  
\*\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 24, 2024 TO 09:00 HOUR ON MAY 25, 2024.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.	<b>RECEIVED DATE</b>	: MAY 18-25, 2024
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120	<b>ANALYTICAL DATE</b>	: MAY 18-25, 2024
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th	<b>ISSUE DATE</b>	: MAY 29, 2024
<b>MEASURING PLACE</b>	: บ้านนิคมสร้างตนเอง (A3)	<b>REPORT NO.</b>	: 2024-U046547
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2023-009915
<b>MEASURING DATE</b>	: MAY 18-25, 2024	<b>ANALYSIS NO.</b>	: T24AL217-0015 - T24AL217-0021
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: WIND SPEED & WIND DIRECTION EQUIPMENT		
<b>MEASURED BY</b>	: MR SUPHAKORN SUANSRI		

TIME *	RESULT (m/s)					
	บ้านนิคมสร้างตนเอง (A3)					
	MAY 18 - 19, 2024 T24AL217-0015		MAY 19 - 20, 2024 T24AL217-0016		MAY 20 - 21, 2024 T24AL217-0017	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.8	SW	1.2	S	2.9	S
09:00-10:00 HOUR	1.6	SSW	2.0	SSW	2.6	SSW
10:00-11:00 HOUR	1.6	S	2.7	SSW	2.5	SW
11:00-12:00 HOUR	1.6	S	2.7	SW	2.9	SSW
12:00-13:00 HOUR	2.3	S	2.1	WSW	2.3	SSW
13:00-14:00 HOUR	2.1	SSW	2.0	WSW	2.1	SW
14:00-15:00 HOUR	1.8	SSW	2.2	WSW	2.4	S
15:00-16:00 HOUR	1.8	S	1.6	SW	2.3	S
16:00-17:00 HOUR	2.4	S	1.8	S	2.7	S
17:00-18:00 HOUR	2.2	SSW	1.8	S	2.8	WSW
18:00-19:00 HOUR	2.3	SSW	1.4	S	2.5	WSW
19:00-20:00 HOUR	1.5	SSW	1.4	SSW	2.8	SSW
20:00-21:00 HOUR	1.1	SSW	0.8	SSW	2.4	SSW
21:00-22:00 HOUR	1.3	SSW	1.0	SW	1.8	SSW
22:00-23:00 HOUR	0.8	SSW	1.0	S	1.3	SSW
23:00-00:00 HOUR	0.9	WSW	0.9	SW	1.3	SSW
00:00-01:00 HOUR	0.8	WSW	1.3	SSW	1.1	S
01:00-02:00 HOUR	0.9	S	1.4	WSW	1.0	S
02:00-03:00 HOUR	0.9	SSW	1.6	SSW	1.1	S
03:00-04:00 HOUR	1.1	SSW	1.7	SW	1.0	S
04:00-05:00 HOUR	0.9	S	2.8	S	0.8	S
05:00-06:00 HOUR	0.8	SSE	2.8	S	1.1	SSE
06:00-07:00 HOUR	1.1	SSE	2.8	SSW	1.1	S
07:00-08:00 HOUR	1.1	SSE	2.5	SW	1.4	SSE



TIME *	RESULT (m/s)							
	บ้านนิคมสร้างตนเอง (A3)							
	MAY 21 - 22, 2024		MAY 22 - 23, 2024		MAY 23 - 24, 2024		MAY 24 - 25, 2024	
	T24AL217-0018		T24AL217-0019		T24AL217-0020		T24AL217-0021	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.4	SSW	1.7	SW	2.1	SSW	0.8	SSW
09:00-10:00 HOUR	2.0	S	2.6	S	2.1	SSW	1.0	SW
10:00-11:00 HOUR	2.1	SSW	2.1	S	1.4	S	1.2	WSW
11:00-12:00 HOUR	1.6	SW	1.7	SSW	1.3	SSW	0.8	WSW
12:00-13:00 HOUR	1.6	SSW	1.8	SSW	1.1	SSW	0.9	SSW
13:00-14:00 HOUR	1.9	S	2.1	SSW	0.9	SSW	1.1	WSW
14:00-15:00 HOUR	1.7	S	2.3	SSW	1.4	S	1.8	SW
15:00-16:00 HOUR	1.5	SSW	1.5	SW	1.7	S	2.2	WSW
16:00-17:00 HOUR	1.3	SW	1.9	SW	2.0	SW	2.0	SSW
17:00-18:00 HOUR	1.5	S	1.6	WSW	2.0	S	1.7	SSW
18:00-19:00 HOUR	1.6	SSW	2.1	WSW	2.4	SW	1.7	S
19:00-20:00 HOUR	1.8	SW	2.2	SW	2.0	S	2.0	S
20:00-21:00 HOUR	1.3	SW	1.6	SSW	2.0	WSW	1.9	SSW
21:00-22:00 HOUR	2.0	SW	1.2	S	1.6	SSW	1.4	SW
22:00-23:00 HOUR	1.5	SSW	1.3	SSW	2.2	SSW	1.1	WSW
23:00-00:00 HOUR	1.8	S	1.1	SSW	1.5	SW	1.2	SW
00:00-01:00 HOUR	2.2	SSW	0.8	SSW	1.8	SW	0.9	WSW
01:00-02:00 HOUR	2.1	S	1.1	SSW	1.7	SW	1.2	SW
02:00-03:00 HOUR	2.5	SW	1.0	SSW	1.3	SSW	1.1	S
03:00-04:00 HOUR	1.8	SSW	0.9	S	0.9	S	0.8	SSW
04:00-05:00 HOUR	1.9	S	1.6	SW	0.9	S	0.8	S
05:00-06:00 HOUR	1.9	SW	1.4	SW	0.9	S	1.2	SSW
06:00-07:00 HOUR	2.4	SSW	1.7	SW	0.7	S	1.1	S
07:00-08:00 HOUR	2.3	SSW	2.3	SSW	1.1	SW	0.9	SSE

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ภาคผนวก ก-2

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ผลการติดตามตรวจสอบคุณภาพอากาศจากปล่องระบาย



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : MAY 20, 2024  
**SAMPLING TIME** : 10:20-11:02 HOUR  
**SAMPLING BY** : MR SOMPONG SAKUNTHAI ว-145-จ-0051  
**ANALYZED BY** : MISS SUWAN KONGTHONG ว-145-ค-0025

**RECEIVED DATE** : MAY 21, 2024  
**ANALYTICAL DATE** : MAY 21-28, 2024  
**ISSUE DATE** : JUNE 6, 2024  
**REPORT NO.** : 2024-U049308  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AK782-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่องหม้อไอน้ำ NO.2 (S1) T24AK782-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	2.02	1.77
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่องหม้อไอน้ำ NO.2 (S1) T24AK782-0001
AMBIENT PRESSURE	mmHg	756
AMBIENT TEMPERATURE	°C	34.5
STACK TEMPERATURE	°C	158.75
DIAMETER	m	0.4
GAS VELOCITY	m/s	9.26
FLOW RATE	Nm <sup>3</sup> /hr	2,579.13
OXYGEN	%	5.06
MOISTURE	%	10.3
CARBONDIOXIDE	%	9.02
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.939013

REMARK  
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
ว-145-ค-0011



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : MAY 20, 2024  
**SAMPLING TIME** : 10:40-10:50 HOUR  
**SAMPLING BY** : MR SOMPONG SAKUNTHAI ๖-145-๖-0051  
**ANALYZED BY** : MR SOMPONG SAKUNTHAI ๖-145-๖-0051

**RECEIVED DATE** : MAY 20, 2024  
**ANALYTICAL DATE** : MAY 20, 2024  
**ISSUE DATE** : JUNE 7, 2024  
**REPORT NO.** : 2024-U049309  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AK782-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			ปล่อยหม้อไอน้ำ NO.2 (S1) T24AK782-0001	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 6C)	< 1	< 1
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 7E)	36	32
CARBON MONOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 10)	2	2
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		ปล่อยหม้อไอน้ำ NO.2 (S1) T24AK782-0001
AMBIENT PRESSURE	mmHg	756
AMBIENT TEMPERATURE	°C	34.5
STACK TEMPERATURE	°C	158.75
DIAMETER	m	0.4
GAS VELOCITY	m/s	9.26
FLOW RATE	Nm³/hr	2,579.13
OXYGEN	%	5.06
MOISTURE	%	10.3
CARBONDIOXIDE	%	9.02
VOLUME OF DRY GAS AT STP	m³	0.939013

**REMARK**  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

  
.....  
(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๖-145-๖-0021



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : MAY 21, 2024  
**SAMPLING TIME** : 08:20-09:08 HOUR  
**SAMPLING BY** : MR SOMPONG SAKUNTHAI ๖-145-๖-0051  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๖-145-๓-0025

**RECEIVED DATE** : MAY 21, 2024  
**ANALYTICAL DATE** : MAY 21-28, 2024  
**REPORT NO.** : 2024-U049310  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AK782-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ปล่อย WET SCRUBBER (S2) T24AK782-0002
			ACTUAL OXYGEN
HYDROGEN CHLORIDE	mg/m <sup>3</sup>	ABSORPTION, ION CHROMATOGRAPHIC METHOD (US EPA METHOD 26A)	0.056
SAMPLE CONDITION			COMPLETE

DESCRIPTION	UNIT	RESULT
		ปล่อย WET SCRUBBER (S2) T24AK782-0002
AMBIENT PRESSURE	mmHg	756
AMBIENT TEMPERATURE	°C	29.5
STACK TEMPERATURE	°C	33
DIAMETER	m	0.8
GAS VELOCITY	m/s	11.63
FLOW RATE	Nm <sup>3</sup> /hr	19,561.58
OXYGEN	%	20.8
MOISTURE	%	2.99
CARBONDIOXIDE	%	0.1
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.952294

**REMARK**

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๖-145-๓-0011



## ภาคผนวก ก-3

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ผลการติดตามตรวจสอบระดับเสียงทั่วไป



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.	<b>RECEIVED DATE</b>	: MAY 19-22, 2024
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120	<b>ANALYTICAL DATE</b>	: MAY 19-22, 2024
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th	<b>ISSUE DATE</b>	: MAY 29, 2024
<b>MEASURING SOURCE</b>	: รีมรั้วโครงการด้านทิศตะวันตก	<b>REPORT NO.</b>	: 2024-U046548
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)	<b>WORK NO.</b>	: 2023-009915
<b>MEASURING DATE</b>	: MAY 19-22, 2024	<b>ANALYSIS NO.</b>	: T24AL218-0001 - T24AL218-0003
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER		
<b>MEASURED BY</b>	: MR SUPHAKORN SUANSRI		

TIME*	RESULT dB(A)		
	รีมรั้วโครงการด้านทิศตะวันตก		
	MAY 19 - 20, 2024		
	T24AL218-0001		
	LAeq 1 hour	LAmx 1 hour	LA90 1 hour
07:00-08:00 HOUR	56.8	76.6	50.8
08:00-09:00 HOUR	56.0	76.7	50.0
09:00-10:00 HOUR	54.9	70.3	50.9
10:00-11:00 HOUR	56.0	80.7	50.4
11:00-12:00 HOUR	53.5	64.3	51.6
12:00-13:00 HOUR	52.7	76.2	50.8
13:00-14:00 HOUR	53.6	65.4	51.4
14:00-15:00 HOUR	54.5	69.2	52.1
15:00-16:00 HOUR	52.8	64.0	51.0
16:00-17:00 HOUR	52.7	64.8	50.5
17:00-18:00 HOUR	52.4	63.7	50.8
18:00-19:00 HOUR	53.7	66.1	51.6
19:00-20:00 HOUR	54.7	66.5	52.0
20:00-21:00 HOUR	55.3	76.1	51.4
21:00-22:00 HOUR	57.9	72.6	51.7
22:00-23:00 HOUR	60.6	70.1	52.6
23:00-00:00 HOUR	62.7	69.1	51.5
00:00-01:00 HOUR	58.5	68.9	51.2
01:00-02:00 HOUR	58.3	76.1	49.9
02:00-03:00 HOUR	61.1	76.5	57.7
03:00-04:00 HOUR	61.9	76.8	58.7
04:00-05:00 HOUR	58.8	76.0	53.4
05:00-06:00 HOUR	54.8	75.5	49.2
06:00-07:00 HOUR	51.6	67.5	49.4
<b>LAeq 24 hours</b>		57.3	



TIME*	RESULT dB(A)		
	ริมรั้วโครงการด้านทิศตะวันตก		
	MAY 20 - 21, 2024		
	T24AL218-0002		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	50.4	61.5	49.4
08:00-09:00 HOUR	52.2	68.3	49.5
09:00-10:00 HOUR	52.3	68.1	49.5
10:00-11:00 HOUR	53.6	68.3	50.0
11:00-12:00 HOUR	58.1	91.5	51.4
12:00-13:00 HOUR	55.1	69.0	49.9
13:00-14:00 HOUR	60.9	69.1	52.0
14:00-15:00 HOUR	52.6	66.1	50.4
15:00-16:00 HOUR	54.5	71.3	50.8
16:00-17:00 HOUR	52.6	66.7	49.2
17:00-18:00 HOUR	53.6	66.0	49.8
18:00-19:00 HOUR	54.6	68.4	50.5
19:00-20:00 HOUR	60.5	69.6	54.3
20:00-21:00 HOUR	61.0	72.1	54.3
21:00-22:00 HOUR	59.2	70.5	54.4
22:00-23:00 HOUR	58.8	67.4	54.2
23:00-00:00 HOUR	60.4	75.6	56.8
00:00-01:00 HOUR	64.8	95.9	56.7
01:00-02:00 HOUR	61.6	74.2	58.5
02:00-03:00 HOUR	60.0	77.0	56.0
03:00-04:00 HOUR	58.3	73.7	54.3
04:00-05:00 HOUR	57.4	73.6	50.7
05:00-06:00 HOUR	58.0	78.8	50.6
06:00-07:00 HOUR	50.3	61.0	48.9
L <sub>Aeq</sub> 24 hours		58.4	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการด้านทิศตะวันตก		
	MAY 21 - 22, 2024		
	T24AL218-0003		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	55.7	80.7	50.2
08:00-09:00 HOUR	51.6	62.3	49.7
09:00-10:00 HOUR	56.8	77.5	50.4
10:00-11:00 HOUR	59.3	81.1	53.2
11:00-12:00 HOUR	59.2	74.4	53.8
12:00-13:00 HOUR	53.5	69.1	52.3
13:00-14:00 HOUR	63.1	85.6	54.6
14:00-15:00 HOUR	53.7	75.5	50.6
15:00-16:00 HOUR	51.3	64.7	49.4
16:00-17:00 HOUR	51.0	71.6	49.1
17:00-18:00 HOUR	51.2	63.5	48.9
18:00-19:00 HOUR	63.3	72.4	54.1
19:00-20:00 HOUR	68.1	74.3	60.2
20:00-21:00 HOUR	66.0	72.3	59.4
21:00-22:00 HOUR	67.7	78.1	63.2
22:00-23:00 HOUR	67.2	75.3	62.6
23:00-00:00 HOUR	66.3	71.8	62.1
00:00-01:00 HOUR	66.4	73.0	60.6
01:00-02:00 HOUR	64.2	74.2	57.7
02:00-03:00 HOUR	63.6	74.7	56.2
03:00-04:00 HOUR	60.2	80.9	52.7
04:00-05:00 HOUR	57.7	80.6	50.0
05:00-06:00 HOUR	53.9	74.4	48.4
06:00-07:00 HOUR	57.4	80.2	48.2
L <sub>Aeq</sub> 24 hours		62.8	

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**MEASURING SOURCE** : ริมรั้วโครงการด้านทิศเหนือ  
**MEASURING TYPE** : AMBIENT (NOISE) **RECEIVED DATE** : MAY 19-22, 2024  
**MEASURING DATE** : MAY 19-22, 2024 **ANALYTICAL DATE** : MAY 19-22, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 29, 2024  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER **REPORT NO.** : 2024-U046549  
**MEASURED BY** : MR SUPHAKORN SUANSRI **WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL218-0004 - T24AL218-0006

TIME*	RESULT dB(A)		
	ริมรั้วโครงการด้านทิศเหนือ		
	MAY 19 - 20, 2024		
	T24AL218-0004		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	62.3	74.0	60.3
08:00-09:00 HOUR	61.9	73.0	60.5
09:00-10:00 HOUR	62.8	75.4	60.7
10:00-11:00 HOUR	63.5	85.3	60.9
11:00-12:00 HOUR	63.0	71.2	61.5
12:00-13:00 HOUR	61.4	69.9	60.2
13:00-14:00 HOUR	61.6	74.1	59.8
14:00-15:00 HOUR	62.3	73.2	60.6
15:00-16:00 HOUR	62.2	76.6	59.7
16:00-17:00 HOUR	62.7	74.1	60.6
17:00-18:00 HOUR	61.5	79.5	59.8
18:00-19:00 HOUR	60.1	70.1	58.9
19:00-20:00 HOUR	61.3	71.2	60.0
20:00-21:00 HOUR	61.4	69.8	60.5
21:00-22:00 HOUR	61.3	64.4	60.7
22:00-23:00 HOUR	61.1	69.0	60.3
23:00-00:00 HOUR	61.6	72.5	60.9
00:00-01:00 HOUR	60.2	68.4	59.0
01:00-02:00 HOUR	60.2	64.8	59.5
02:00-03:00 HOUR	60.0	63.0	59.4
03:00-04:00 HOUR	60.4	65.3	59.7
04:00-05:00 HOUR	60.0	65.7	59.4
05:00-06:00 HOUR	60.9	68.7	59.6
06:00-07:00 HOUR	61.5	72.0	60.0
L <sub>Aeq</sub> 24 hours	61.6		



TIME*	RESULT dB(A)		
	ริมรั้วโครงการด้านทิศเหนือ		
	MAY 20 - 21, 2024		
	T24AL218-0005		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	64.0	74.4	61.1
08:00-09:00 HOUR	62.0	75.7	59.4
09:00-10:00 HOUR	61.6	77.5	58.6
10:00-11:00 HOUR	62.8	77.3	59.7
11:00-12:00 HOUR	63.7	95.0	59.7
12:00-13:00 HOUR	61.8	73.2	59.7
13:00-14:00 HOUR	66.2	78.8	61.5
14:00-15:00 HOUR	62.6	79.9	60.6
15:00-16:00 HOUR	63.2	79.2	60.5
16:00-17:00 HOUR	62.6	72.2	59.7
17:00-18:00 HOUR	61.7	72.5	59.9
18:00-19:00 HOUR	61.6	75.3	59.9
19:00-20:00 HOUR	63.3	72.9	60.4
20:00-21:00 HOUR	61.1	73.0	59.6
21:00-22:00 HOUR	60.3	74.8	59.0
22:00-23:00 HOUR	62.5	73.1	61.5
23:00-00:00 HOUR	63.2	69.7	61.6
00:00-01:00 HOUR	61.8	74.8	60.5
01:00-02:00 HOUR	60.5	65.7	59.7
02:00-03:00 HOUR	61.4	66.7	60.3
03:00-04:00 HOUR	61.0	70.4	59.7
04:00-05:00 HOUR	60.1	68.4	58.6
05:00-06:00 HOUR	61.9	74.3	61.1
06:00-07:00 HOUR	63.1	79.4	61.7
L <sub>Aeq</sub> 24 hours	62.5		

TIME*	RESULT dB(A)		
	ริมรั้วโครงการด้านทิศเหนือ		
	MAY 21 - 22, 2024		
	T24AL218-0006		
	LAeq 1 hour	LAmx 1 hour	LA90 1 hour
07:00-08:00 HOUR	64.5	80.9	61.4
08:00-09:00 HOUR	62.2	74.9	58.5
09:00-10:00 HOUR	63.8	75.5	60.4
10:00-11:00 HOUR	63.6	79.9	59.9
11:00-12:00 HOUR	62.2	74.9	59.8
12:00-13:00 HOUR	60.7	73.6	59.2
13:00-14:00 HOUR	64.9	78.8	60.5
14:00-15:00 HOUR	63.8	87.4	59.6
15:00-16:00 HOUR	64.4	77.2	60.7
16:00-17:00 HOUR	62.4	78.0	59.5
17:00-18:00 HOUR	62.0	71.2	60.1
18:00-19:00 HOUR	65.2	76.6	59.5
19:00-20:00 HOUR	62.8	75.0	59.3
20:00-21:00 HOUR	60.9	75.8	58.8
21:00-22:00 HOUR	60.9	76.0	59.2
22:00-23:00 HOUR	62.1	71.9	60.6
23:00-00:00 HOUR	61.4	69.6	59.8
00:00-01:00 HOUR	62.1	71.8	60.5
01:00-02:00 HOUR	61.3	69.9	60.0
02:00-03:00 HOUR	62.1	74.2	60.3
03:00-04:00 HOUR	63.1	73.7	62.2
04:00-05:00 HOUR	62.9	69.4	61.9
05:00-06:00 HOUR	63.8	76.3	61.3
06:00-07:00 HOUR	62.5	71.7	61.2
L <sub>Aeq</sub> 24 hours	62.9		

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ภาคผนวก ก-4

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ผลการติดตามตรวจสอบคุณภาพน้ำผิวดิน



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : คลองน้ำเย็นก่อนไหลผ่านจุดประกอบกรวย จุดที่ 1 (SW1)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 09:45 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-22, 2024  
**ISSUE DATE** : MAY 24, 2024  
**REPORT NO.** : 2024-U044570  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AJ956-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SW1 T24AJ956-0001		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	6.7 (30°C)	5.0-9.0	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	3,360 (30°C)	-	0.1
DISSOLVED OXYGEN	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM: PART 4500-O C)	4.8	≥ 2.0	0.5
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.4	≤ 4.0	1.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	-	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	1,542	-	25
AMMONIA-NITROGEN	mg/L NH <sub>3</sub> -N	DISTILLATION NESSLERIZATION METHOD	1.19	≤ 0.5	0.5
NITRATE-NITROGEN	mg/L NO <sub>3</sub> <sup>-</sup> -N	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> <sup>-</sup> E)	0.19	≤ 5.0	0.02
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	ND	≤ 0.005	0.005
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	-	3
<b>METALS</b>					
HEXAVALENT CHROMIUM	mg/L Cr <sup>6+</sup>	EXTRACTION AND AIR-ACETYLENE FLAME METHOD (SM: PART 3111 C)	ND	≤ 0.05	0.001
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.1	0.002
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.246	-	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.05	0.003
TOTAL MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	≤ 0.002	0.0001





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SW1 T24AJ956-0001		
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 0.1	0.005
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.345	≤ 1.0	0.003
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	35,000	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

STANDARDS : SURFACE WATER QUALITY STANDARDS CLASS 4, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537  
ISSUED UNDER THE ENCHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 4 : FAIRLY CLEAN FRESH SURFACE WATER RESOURCES USED FOR :  
(1) CONSUMPTION, BUT REQUIRES SPECIAL WATER TREATMENT PROCESS BEFORE USING  
(2) INDUSTRY

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (NICKEL ≥ 0.005 AND < 0.050 mg/L).

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : คลองน้ำเย็นก่อนไหลผ่านจุดประกอบการฯ จุดที่ 2 (SW2)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 10:05 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-22, 2024  
**ISSUE DATE** : MAY 24, 2024  
**REPORT NO.** : 2024-U044571  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AJ956-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			คลองน้ำเย็นก่อนไหลผ่านจุดประกอบการฯ จุดที่ 2 (SW2) T24AJ956-0002		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.8 (29°C)	5.0-9.0	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	399 (29°C)	-	0.1
DISSOLVED OXYGEN	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM: PART 4500-O C)	3.9	≥ 2.0	0.5
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.9	≤ 4.0	1.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.4	-	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	231	-	25
AMMONIA-NITROGEN	mg/L NH <sub>3</sub> -N	DISTILLATION NESSLERIZATION METHOD	ND	≤ 0.5	0.5
NITRATE-NITROGEN	mg/L NO <sub>3</sub> -N	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> -E)	0.13	≤ 5.0	0.02
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	ND	≤ 0.005	0.005
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	-	3
METALS					
HEXAVALENT CHROMIUM	mg/L Cr <sup>6+</sup>	EXTRACTION AND AIR-ACETYLENE FLAME METHOD (SM: PART 3111 C)	ND	≤ 0.05	0.001
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.1	0.002
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	5.48	-	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.05	0.003
TOTAL MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	< LOQ	≤ 0.002	0.0001



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			คล่องน้ำเป็นก้อนไหล ผ่านจุดประกอบการฯ จุดที่ 2 (SW2) T24AJ956-0002		
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	≤ 0.1	0.005
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 1.0	0.003
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	35,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

STANDARDS : SURFACE WATER QUALITY STANDARDS CLASS 4, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENCHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 4 : FAIRLY CLEAN FRESH SURFACE WATER RESOURCES USED FOR :

- (1) CONSUMPTION, BUT REQUIRES SPECIAL WATER TREATMENT PROCESS BEFORE USING
- (2) INDUSTRY

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL MERCURY ≥ 0.0001 AND < 0.0005 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

## ภาคผนวก ก-5

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ผลการติดตามตรวจสอบคุณภาพน้ำทิ้ง



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT)  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 23, 2024  
**SAMPLING TIME** : 13:35 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JANUARY 24, 2024  
**ANALYTICAL DATE** : JANUARY 24-31, 2024  
**ISSUE DATE** : FEBRUARY 2, 2024  
**REPORT NO.** : 2024-U009196  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AB451-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AB451-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.2 (31°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 50	5.0
TEMPERATURE °	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	31	≤ 40	-
TOTAL DISSOLVED SOLIDS °	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	842	≤ 3,000	25
OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
PHENOLS °	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM: 5530 B AND 5530 D)	ND	≤ 1	0.100
PHOSPHATE °	mg/L PO <sub>4</sub> <sup>3-</sup>	ASCORBIC ACID METHOD (SM: PART 4500-P E)	0.09	-	0.03
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	17.1	-	0.3
<b>METALS</b>					
TRIVALENT CHROMIUM °	mg/L Cr <sup>3+</sup>	DIGESTION, DIRECT AIR-ACETYLENE FLAME; FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM: PART 3030 E, PART 3111 B AND PART 3500-Cr B)	ND	≤ 0.75	0.007
HEXAVALENT CHROMIUM °	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
ZINC °	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.081	≤ 5.0	0.003
MANGANESE °	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 5.0	0.004



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AB451-0001		
IRON <sup>c</sup>	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.191	-	0.005
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	460	-	1.8
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

FEBRUARY 5, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT)  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 2, 2024  
**SAMPLING TIME** : 14:12 HOUR  
**SAMPLING METHOD °** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY °** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : FEBRUARY 3, 2024  
**ANALYTICAL DATE** : FEBRUARY 3-8, 2024  
**ISSUE DATE** : FEBRUARY 14, 2024  
**REPORT NO.** : 2024-U012061  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AC175-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AC175-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B)	8.9 (33°C)	5.5-9.0	-
TEMPERATURE °	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	33	≤ 40	-
BIOCHEMICAL OXYGEN DEMAND* °	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 50	5.0
PHOSPHATE °	mg/L PO <sub>4</sub> <sup>3-</sup>	ASCORBIC ACID METHOD (SM: PART 4500-P E)	0.06	-	0.03
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500 -SO <sub>4</sub> <sup>2-</sup> E)	11.5	-	0.3
TOTAL DISSOLVED SOLIDS °	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	958	≤ 3,000	25
OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
PHENOLS °	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM: 5530 B AND 5530 D)	ND	≤ 1	0.100
<b>METALS</b>					
TRIVALENT CHROMIUM °	mg/L Cr <sup>3+</sup>	DIGESTION, DIRECT AIR-ACETYLENE FLAME; FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM: PART 3030 E, PART 3111 B AND PART 3500-Cr B)	0.010	≤ 0.75	0.007
HEXAVALENT CHROMIUM °	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
ZINC °	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.058	≤ 5.0	0.003
MANGANESE °	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 5.0	0.004
IRON °	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.295	-	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อ น้ำทิ้ง EFFLUENT) T24AC175-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	< 1.8	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

\* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

FEBRUARY 15, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT)  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 1, 2024  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : MARCH 2, 2024  
**ANALYTICAL DATE** : MARCH 2-12, 2024  
**ISSUE DATE** : MARCH 12, 2024  
**REPORT NO.** : 2024-U020520  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AE332-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AE332-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.4 (35°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	5.2	≤ 50	5.0
TEMPERATURE <sup>c</sup>	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	35	≤ 40	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,070	≤ 3,000	25
OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
PHENOLS <sup>c</sup>	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM: 5530 B AND 5530 D)	ND	≤ 1	0.100
PHOSPHATE <sup>c</sup>	mg/L PO <sub>4</sub> <sup>3-</sup>	ASCORBIC ACID METHOD (SM: PART 4500-P E)	0.09	-	0.03
SULPHATE <sup>c</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500 -SO <sub>4</sub> <sup>2-</sup> E)	33.4	-	0.3
METALS					
TRIVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>3+</sup>	DIGESTION, DIRECT AIR-ACETYLENE FLAME; FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM: PART 3030 E, PART 3111 B AND PART 3500-Cr B)	ND	≤ 0.75	0.007
HEXAVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
ZINC <sup>c</sup>	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	1.95	≤ 5.0	0.003
MANGANESE <sup>c</sup>	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.656	≤ 5.0	0.004



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อ น้ำทิ้ง EFFLUENT) T24AE332-0001		
IRON <sup>c</sup>	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.816	-	0.005
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	240	-	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

MARCH 13, 2024

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT)  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 5, 2024  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : APRIL 6, 2024  
**ANALYTICAL DATE** : APRIL 6-19, 2024  
**ISSUE DATE** : APRIL 22, 2024  
**REPORT NO.** : 2024-U033281  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AH402-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AH402-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.5 (37°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>c</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 50	5.0
TEMPERATURE <sup>c</sup>	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	37	≤ 40	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,162	≤ 3,000	25
OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
PHENOLS <sup>c</sup>	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM: 5530 B AND 5530 D)	ND	≤ 1	0.100
PHOSPHATE <sup>c</sup>	mg/L PO <sub>4</sub> <sup>3-</sup>	ASCORBIC ACID METHOD (SM: PART 4500-P E)	0.06	-	0.03
SULPHATE <sup>c</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	35.2	-	0.3
<b>METALS</b>					
TRIVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>3+</sup>	DIGESTION, DIRECT AIR-ACETYLENE FLAME; FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM: PART 3030 E, PART 3111 B AND PART 3500-Cr B)	ND	≤ 0.75	0.007
HEXAVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
ZINC <sup>c</sup>	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.003
MANGANESE <sup>c</sup>	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 5.0	0.004
IRON <sup>c</sup>	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	-	0.005





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อ น้ำทิ้ง EFFLUENT) T24AH402-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	70	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			YELLOW		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (ZINC  $\geq 0.003$  AND  $< 0.050$  mg/L, IRON  $\geq 0.005$  AND  $< 0.100$  mg/L).

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

APRIL 23, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT)  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-18, 2024  
**ISSUE DATE** : MAY 23, 2024  
**REPORT NO.** : 2024-U044065  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AJ955-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AJ955-0001		
pH	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.2 (36°C)	5.5-9.0	-
TEMPERATURE	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	36	≤ 40	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 50	5.0
PHOSPHATE	mg/L PO <sub>4</sub> <sup>3-</sup>	ASCORBIC ACID METHOD (SM: PART 4500-P E)	0.43	-	0.03
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	30.2	-	0.3
TOTAL DISSOLVED SOLIDS	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,241	≤ 3,000	25
OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
PHENOLS	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM: 5530 B AND 5530 D)	ND	≤ 1	0.100
METALS					
TRIVALENT CHROMIUM	mg/L Cr <sup>3+</sup>	DIGESTION, DIRECT AIR-ACETYLENE FLAME, FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM: PART 3030 E, PART 3111 B AND PART 3500-Cr B)	ND	≤ 0.75	0.007
HEXAVALENT CHROMIUM	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
MANGANESE	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.004
ZINC	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.480	≤ 5.0	0.003
IRON	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.972	-	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อ น้ำทิ้ง EFFLUENT) T24AJ955-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	23	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (MANGANESE  $\geq 0.004$  AND  $< 0.050$  mg/L).

*Bhuchonk p.*

(MR. BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT)  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 14, 2024  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JUNE 15, 2024  
**ANALYTICAL DATE** : JUNE 15-26, 2024  
**ISSUE DATE** : JUNE 26, 2024  
**REPORT NO.** : 2024-U057212  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AN283-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อน้ำทิ้ง EFFLUENT) T24AN283-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	8.0 (36°C)	5.5-9.0	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	36	≤ 40	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>c</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 50	5.0
PHOSPHATE <sup>c</sup>	mg/L PO <sub>4</sub> <sup>3-</sup>	ASCORBIC ACID METHOD (SM: PART 4500-P E)	0.15	-	0.03
SULPHATE <sup>c</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: PART 4500-SO <sub>4</sub> <sup>2-</sup> E)	29.8	-	0.3
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	776	≤ 3,000	25
OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
PHENOLS <sup>a</sup>	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 D)	ND	≤ 1	0.015
<b>METALS</b>					
TRIVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>3+</sup>	NITRIC ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (SM: PART 3030 E, PART 3111 B AND PART 3500-Cr B) AND CALCULATION METHOD	ND	≤ 0.75	0.007
HEXAVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM: PART 3500-Cr B)	ND	≤ 0.25	0.006
MANGANESE <sup>a</sup>	mg/L Mn	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	≤ 5.0	0.005
ZINC <sup>a</sup>	mg/L Zn	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	0.178	≤ 5.0	0.003
IRON <sup>a</sup>	mg/L Fe	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	0.446	-	0.005





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปลายท่อ POND 1 (บริเวณปลายท่อ น้ำทิ้ง EFFLUENT) T24AN283-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B, C AND E)	2.0	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (MANGANESE  $\geq 0.005$  AND < 0.050 mg/L).

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : EFFLUENT POND  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 23, 2024  
**SAMPLING TIME** : 13:35 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JANUARY 24, 2024  
**ANALYTICAL DATE** : JANUARY 24-25, 2024  
**ISSUE DATE** : FEBRUARY 2, 2024  
**REPORT NO.** : 2024-U009197  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AB451-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT POND T24AB451-0002		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	842	≤ 3,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 <sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

FEBRUARY 5, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : EFFLUENT POND  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 2, 2024  
**SAMPLING TIME** : 14:12 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : FEBRUARY 3, 2024  
**ANALYTICAL DATE** : FEBRUARY 3-7, 2024  
**ISSUE DATE** : FEBRUARY 14, 2024  
**REPORT NO.** : 2024-U012062  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AC175-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT POND T24AC175-0002		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	958	≤ 3,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 <sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

FEBRUARY 15, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : EFFLUENT POND  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 1, 2024  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : MARCH 2, 2024  
**ANALYTICAL DATE** : MARCH 2-5, 2024  
**ISSUE DATE** : MARCH 12, 2024  
**REPORT NO.** : 2024-U020522  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AE332-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT POND T24AE332-0002		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,070	≤ 3,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

MARCH 13, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : EFFLUENT POND  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 5, 2024  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR CHAI BUASOD  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : APRIL 6, 2024  
**ANALYTICAL DATE** : APRIL 6-10, 2024  
**ISSUE DATE** : APRIL 22, 2024  
**REPORT NO.** : 2024-U033282  
**WORK NO.** : 2023-009916  
**ANALYSIS NO.** : T24AH402-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT POND T24AH402-0002		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,162	≤ 3,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 23, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : EFFLUENT POND  
**SAMPLE TYPE** : EFFLUENT **RECEIVED DATE** : MAY 11, 2024  
**SAMPLING DATE** : MAY 10, 2024 **ANALYTICAL DATE** : MAY 11-17, 2024  
**SAMPLING TIME** : 13:30 HOUR **ISSUE DATE** : MAY 23, 2024  
**SAMPLING METHOD** : GRAB **REPORT NO.** : 2024-U044070  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA **WORK NO.** : 2023-009916  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM **ANALYSIS NO.** : T24AJ955-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT POND T24AJ955-0004		
TOTAL DISSOLVED SOLIDS	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,241	≤ 3,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.	<b>RECEIVED DATE</b>	: JUNE 15, 2024
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120	<b>ANALYTICAL DATE</b>	: JUNE 15-21, 2024
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th	<b>ISSUE DATE</b>	: JUNE 26, 2024
<b>SAMPLING SOURCE</b>	: EFFLUENT POND	<b>REPORT NO.</b>	: 2024-U057213
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>WORK NO.</b>	: 2023-009916
<b>SAMPLING DATE</b>	: JUNE 14, 2024	<b>ANALYSIS NO.</b>	: T24AN283-0002
<b>SAMPLING TIME</b>	: 13:30 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB		
<b>SAMPLING BY <sup>c</sup></b>	: MR SETTHAWUT EMKLINBUA		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT POND T24AN283-0002		
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	776	≤ 3,000	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR



## ภาคผนวก ก-6

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ผลการติดตามตรวจสอบคุณภาพดิน




## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL **RECEIVED DATE** : MAY 11, 2024  
**SAMPLING DATE** : MAY 10, 2024 **ANALYTICAL DATE** : MAY 11-29, 2024  
**SAMPLING TIME** : 11:25 HOUR **ISSUE DATE** : MAY 30, 2024  
**SAMPLING METHOD** : UNDISTURBED **REPORT NO.** : 2024-U047392  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA **WORK NO.** : 2023-009915  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA **ANALYSIS NO.** : T24AJ957-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณพื้นที่สีเขียว ลึกไม่เกิน 5 ซม. (จุดที่ 1) T24AJ957-0001		
METALS					
CHROMIUM HEXAVALENT (Cr <sup>6+</sup> )	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 640	0.600
TRIVALENT CHROMIUM (Cr <sup>3+</sup> )	mg/kg	ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (US EPA 1996: 3050B, 2007: 7000B AND 1992: 7196A) AND CALCULATION METHOD	18.7	≤ 1,000	0.500
IRON (Fe)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	21,890	-	0.500
MANGANESE (Mn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	20.1	≤ 32,000	0.250
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	19.4	≤ 1,000	0.350
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.  
 ND : NON-DETECTABLE.

  
 (MR BHUCHONK PANICHLERTUMPI)  
 LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA  
**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-29, 2024  
**ISSUE DATE** : MAY 30, 2024  
**REPORT NO.** : 2024-U047393  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AJ957-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณพื้นที่สีเขียว ลึกไม่เกิน 5 ซม. (จุดที่ 2) T24AJ957-0002		
METALS					
CHROMIUM HEXAVALENT (Cr <sup>6+</sup> )	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 640	0.600
TRIVALENT CHROMIUM (Cr <sup>3+</sup> )	mg/kg	ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (US EPA 1996: 3050B, 2007: 7000B AND 1992: 7196A) AND CALCULATION METHOD	10.5	≤ 1,000	0.500
IRON (Fe)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	7,886	-	0.500
MANGANESE (Mn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	88.6	≤ 32,000	0.250
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	38.1	≤ 1,000	0.350
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 11:15 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA  
**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-29, 2024  
**ISSUE DATE** : MAY 30, 2024  
**REPORT NO.** : 2024-U047394  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AJ957-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณพื้นที่สีเขียว ลึกไม่เกิน 5 ซม. (จุดที่ 3) T24AJ957-0003		
METALS					
CHROMIUM HEXAVALENT (Cr <sup>6+</sup> )	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 640	0.600
TRIVALENT CHROMIUM (Cr <sup>3+</sup> )	mg/kg	ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (US EPA 1996: 3050B, 2007: 7000B AND 1992: 7196A) AND CALCULATION METHOD	14.0	≤ 1,000	0.500
IRON (Fe)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	7,873	-	0.500
MANGANESE (Mn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	71.9	≤ 32,000	0.250
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	20.1	≤ 1,000	0.350
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 11:35 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA  
**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-29, 2024  
**ISSUE DATE** : MAY 30, 2024  
**REPORT NO.** : 2024-U047395  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AJ957-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณพื้นที่สีเขียว ลึกไม่เกิน 5 ซม. (จุดที่ 4) T24AJ957-0004		
METALS					
CHROMIUM HEXAVALENT (Cr <sup>6+</sup> )	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 640	0.600
TRIVALENT CHROMIUM (Cr <sup>3+</sup> )	mg/kg	ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (US EPA 1996: 3050B, 2007: 7000B AND 1992: 7196A) AND CALCULATION METHOD	8.77	≤ 1,000	0.500
IRON (Fe)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	6,197	-	0.500
MANGANESE (Mn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	29.4	≤ 32,000	0.250
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	9.42	≤ 1,000	0.350
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.  
 ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR



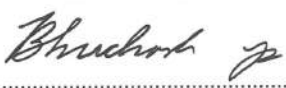
## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL **RECEIVED DATE** : MAY 11, 2024  
**SAMPLING DATE** : MAY 10, 2024 **ANALYTICAL DATE** : MAY 11-29, 2024  
**SAMPLING TIME** : 11:40 HOUR **ISSUE DATE** : MAY 30, 2024  
**SAMPLING METHOD** : UNDISTURBED **REPORT NO.** : 2024-U047396  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA **WORK NO.** : 2023-009915  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA **ANALYSIS NO.** : T24AJ957-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณพื้นที่สีเขียว ลึกไม่เกิน 5 ซม. (จุดที่ 5) T24AJ957-0005		
METALS					
CHROMIUM HEXAVALENT (Cr <sup>6+</sup> )	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 640	0.600
TRIVALENT CHROMIUM (Cr <sup>3+</sup> )	mg/kg	ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (US EPA 1996: 3050B, 2007: 7000B AND 1992: 7196A) AND CALCULATION METHOD	18.6	≤ 1,000	0.500
IRON (Fe)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	18,751	-	0.500
MANGANESE (Mn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	34.2	≤ 32,000	0.250
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	21.9	≤ 1,000	0.350
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.  
 ND : NON-DETECTABLE.

  
 (MR BHUCHONK PANICHLERTUMPI)  
 LABORATORY SUPERVISOR






## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : MAY 10, 2024  
**SAMPLING TIME** : 11:45 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR SETTHAWUT EMKLINBUA  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA  
**RECEIVED DATE** : MAY 11, 2024  
**ANALYTICAL DATE** : MAY 11-29, 2024  
**ISSUE DATE** : MAY 30, 2024  
**REPORT NO.** : 2024-U047397  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AJ957-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณพื้นที่สีเขียว ลึกไม่เกิน 5 ซม. (จุดที่ 6) T24AJ957-0006		
METALS					
CHROMIUM HEXAVALENT (Cr <sup>6+</sup> )	mg/kg	ALKALINE DIGESTION AND COLOURIMETRIC METHOD (US EPA 1996: 3060A AND 1992: 7196A)	ND	≤ 640	0.600
TRIVALENT CHROMIUM (Cr <sup>3+</sup> )	mg/kg	ACID DIGESTION, DIRECT AIR ACETYLENE FLAME, COLOURIMETRIC (US EPA 1996: 3050B, 2007: 7000B AND 1992: 7196A) AND CALCULATION METHOD	24.7	≤ 1,000	0.500
IRON (Fe)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	25,024	-	0.500
MANGANESE (Mn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	66.9	≤ 32,000	0.250
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	108	≤ 1,000	0.350
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.  
ND : NON-DETECTABLE.

  
.....  
(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR





## ภาคผนวก ก-7

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ผลการติดตามตรวจสอบความร้อนในสถานประกอบการ

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**MEASURING PLACE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**MEASURING TYPE** : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : FEBRUARY 12, 2024  
**MEASURING DATE** : FEBRUARY 12, 2024 **ANALYTICAL DATE** : FEBRUARY 12, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : FEBRUARY 16, 2024  
**MEASURING EQUIPMENT** : WET BULB GLOBE TEMPERATURE **REPORT NO.** : 2024-U013427  
**MEASURED BY** : MISS ORAYA PRASANSRI **WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC830-0001 - T24AC830-0002

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB	DB	GT	WBGT	WBGT <sub>AVG</sub>
T24AC830-0001	พื้นที่เดาอบไล่ความชื้น (H1) (คุณศุกรินทร์ ████████)	10:00-10:40 HOUR	23.1	29.9	30.5	25.3	23.6
		10:40-12:00 HOUR	21.8	24.3	25.1	22.7	
T24AC830-0002	พื้นที่หม้อไอน้ำ (BOILER) (H2) (คุณอดิศักดิ์ ████████)	10:10-10:50 HOUR	24.3	32.1	34.2	27.3	24.2
		10:50-12:10 HOUR	21.6	24.0	25.1	22.6	

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

FEBRUARY 27, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 080 407 9059 e-mail : thidarat\_s@siw.co.th  
**MEASURING PLACE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**MEASURING TYPE** : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : MAY 23, 2024  
**MEASURING DATE** : MAY 23, 2024 **ANALYTICAL DATE** : MAY 23, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 29, 2024  
**MEASURING EQUIPMENT** : WET BULB GLOBE TEMPERATURE **REPORT NO.** : 2024-U046273  
**MEASURED BY** : MISS CHAMANDA KIMAKOM **WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL247-0001 - T24AL247-0002

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB	DB	GT	WBGT	WBGT AVG
T24AL247-0001	พื้นที่เดาอบไล่ความร้อน (H1) (คุณสมชาย █████)	10:05-10:45 HOUR	27.6	30.5	31.6	28.8	27.1
		10:45-12:05 HOUR	25.3	26.6	28.5	26.2	
T24AL247-0002	พื้นที่หม้อไอน้ำ (H2) (คุณอดิศักดิ์ █████)	10:00-10:40 HOUR	28.3	31.6	32.4	29.5	27.5
		10:40-12:00 HOUR	25.9	27.0	27.8	26.4	

*Nattawat.*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR





## ภาคผนวก ก-8

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ผลการติดตามตรวจสอบคุณภาพอากาศในสถานประกอบการ

## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PC STRAND (KM 1,2)  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 09:05-17:05 HOUR  
**SAMPLING BY** : MR KHWANCHAI PHONTHUK  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-21, 2024  
**ISSUE DATE** : FEBRUARY 22, 2024  
**REPORT NO.** : 2024-U015735  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC829-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PC STRAND (KM 1,2) T24AC829-0001
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.004
SAMPLE CONDITION			COMPLETE

REMARK  
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PC WIRE (DRG 6,2)  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 09:00-17:00 HOUR  
**SAMPLING BY** : MR KHWANCHAI PHONTHUK  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-21, 2024  
**ISSUE DATE** : FEBRUARY 22, 2024  
**REPORT NO.** : 2024-U015736  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC829-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PC WIRE (DRG 6,2) T24AC829-0002
TOTAL DUST <sup>b</sup>	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST <sup>a</sup>	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.015
<b>SAMPLE CONDITION</b>			COMPLETE

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARD INSTITUTE (TISI)  
<sup>b</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REMARK  
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PE  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 09:10-17:10 HOUR  
**SAMPLING BY** : MR KHWANCHAI PHONTHUK  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-21, 2024  
**ISSUE DATE** : FEBRUARY 22, 2024  
**REPORT NO.** : 2024-U015737  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC829-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PE T24AC829-0003
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.004
SAMPLE CONDITION			COMPLETE

**REMARK**

**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : WIRE MESH (DRG3)  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 09:30-17:30 HOUR  
**SAMPLING BY** : MR KHWANCHAI PHONTHUK  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-21, 2024  
**ISSUE DATE** : FEBRUARY 22, 2024  
**REPORT NO.** : 2024-U015738  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC829-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			WIRE MESH (DRG3) T24AC829-0004
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	0.091
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	< 0.003
SAMPLE CONDITION			COMPLETE

REMARK  
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : COLD DRAWN  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 09:25-17:25 HOUR  
**SAMPLING BY** : MR KHWANCHAI PHONTHUK  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-21, 2024  
**ISSUE DATE** : FEBRUARY 22, 2024  
**REPORT NO.** : 2024-U015739  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC829-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			COLD DRAWN T24AC829-0005
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.004
SAMPLE CONDITION			COMPLETE

REMARK  
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PICKLING PLANT  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : FEBRUARY 12, 2024  
**SAMPLING TIME** : 09:15-12:15 HOUR  
**SAMPLING BY** : MR KHWANCHAI PHONTHUK  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : FEBRUARY 13, 2024  
**ANALYTICAL DATE** : FEBRUARY 13-16, 2024  
**ISSUE DATE** : FEBRUARY 22, 2024  
**REPORT NO.** : 2024-U015740  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AC829-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PICKLING PLANT T24AC829-0006
HYDROGEN CHLORIDE	ppm	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 7903)	< 0.001
SAMPLE CONDITION			COMPLETE

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

FEBRUARY 23, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PC STRAND (KM 1,2)  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MAY 23-24, 2024  
**SAMPLING TIME** : 17:00-01:00 HOUR  
**SAMPLING BY** : MISS CHAMANDA KIMAKOM  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054383  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL245-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PC STRAND (KM 1,2) T24AL245-0001
TOTAL DUST <sup>b</sup>	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST <sup>a</sup>	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.014
<b>SAMPLE CONDITION</b>			COMPLETE

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARD INSTITUTE (TISI)

<sup>b</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn* ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: THE SIAM INDUSTRIAL WIRE CO., LTD.		
<b>ADDRESS</b>	: 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120		
<b>CONTACT INFORMATION</b>	: TEL : 0 3889 2333 EXT. 413 e-mail : taweesak_a@siw.co.th		
<b>SAMPLING SOURCE</b>	: PC WIRE (DRG 6,2)		
<b>SAMPLE TYPE</b>	: WORKPLACE	<b>RECEIVED DATE</b>	: MAY 27, 2024
<b>SAMPLING DATE</b>	: MAY 23, 2024	<b>ANALYTICAL DATE</b>	: MAY 27 - JUNE 11, 2024
<b>SAMPLING TIME</b>	: 08:50-16:50 HOUR	<b>ISSUE DATE</b>	: JUNE 19, 2024
<b>SAMPLING BY</b>	: MISS CHAMANDA KIMAKOM	<b>REPORT NO.</b>	: 2024-U054388
<b>ANALYZED BY</b>	: MISS JETJARIN TUMSA-AT	<b>WORK NO.</b>	: 2023-009915
		<b>ANALYSIS NO.</b>	: T24AL245-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PC WIRE (DRG 6,2) T24AL245-0002
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.009
SAMPLE CONDITION			COMPLETE

REMARK  
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

  
.....  
(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PE  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MAY 23, 2024  
**SAMPLING TIME** : 08:53-16:53 HOUR  
**SAMPLING BY** : MISS CHAMANDA KIMAKOM  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 11, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054392  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL245-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PE T24AL245-0003
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.007
SAMPLE CONDITION			COMPLETE

REMARK  
 RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
 LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : WIRE MESH (DRD3)  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MAY 24, 2024  
**SAMPLING TIME** : 08:30-16:30 HOUR  
**SAMPLING BY** : MISS CHAMANDA KIMAKOM  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27-31, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054422  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL245-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			WIRE MESH (DRD3) T24AL245-0004
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.009
SAMPLE CONDITION			COMPLETE

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : COLD DRAWN  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MAY 24, 2024  
**SAMPLING TIME** : 08:35-16:35 HOUR  
**SAMPLING BY** : MISS CHAMANDA KIMAKOM  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 11, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054424  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL245-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			COLD DRAWN T24AL245-0005
TOTAL DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	< 0.060
RESPIRABLE DUST	mg/m <sup>3</sup>	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.006
<b>SAMPLE CONDITION</b>			COMPLETE

REMARK  
 RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
 LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**SAMPLING SOURCE** : PICKLING PLANT  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MAY 23, 2024  
**SAMPLING TIME** : 17:15-20:15 HOUR  
**SAMPLING BY** : MISS CHAMANDA KIMAKOM  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MAY 27, 2024  
**ANALYTICAL DATE** : MAY 27 - JUNE 11, 2024  
**ISSUE DATE** : JUNE 19, 2024  
**REPORT NO.** : 2024-U054468  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL245-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			PICKLING PLANT T24AL245-0009
HYDROGEN CHLORIDE	ppm	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 7903)	0.007
SAMPLE CONDITION			COMPLETE

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ภาคผนวก ก-9

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ผลการติดตามตรวจสอบระดับเสียงในสถานประกอบการ



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 0 3889 2333 EXT. 413 e-mail : taweesak\_a@siw.co.th  
**MEASURING PLACE** : THE SIAM INDUSTRIAL WIRE CO., LTD  
**MEASURING TYPE** : WORKPLACE (NOISE) **RECEIVED DATE** : FEBRUARY 12, 2024  
**MEASURING DATE** : FEBRUARY 12, 2024 **ANALYTICAL DATE** : FEBRUARY 12, 2024  
**MEASURING TIME** : \* **REPORT NO.** : 2024-U013060  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2023-009915  
**MEASURED BY** : MISS ORAYA PRASANSRI **ANALYSIS NO.** : T24AC831-0001 - T24AC831-0005

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 8 hours	L <sub>Amax</sub> 8 hours
T24AC831-0001	PC STRAND (KM 4/5)	09:02-17:02	93.2	105
T24AC831-0002	PC WIRE (DRG 6/2)	08:58-16:58	87.8	98.4
T24AC831-0003	PE	09:08-17:08	82.2	95.0
T24AC831-0004	WIRE MESH (ควบคุมเครื่อง MESH 2)	09:23-17:23	83.2	101
T24AC831-0005	COLD DRAWN (จุดโต๊ะเขียนรายงาน)	09:28-17:28	81.0	95.6

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

FEBRUARY 16, 2024



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 080 407 9059 e-mail : thidarat\_s@siw.co.th  
**MEASURING PLACE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**MEASURING TYPE** : WORKPLACE (NOISE) **RECEIVED DATE** : MAY 23-24, 2024  
**MEASURING DATE** : MAY 23-24, 2024 **ANALYTICAL DATE** : MAY 23-24, 2024  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 29, 2024  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER **REPORT NO.** : 2024-U046159  
**MEASURED BY** : MISS CHAMANDA KIMAKOM **WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL249-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 8 hours	L <sub>Amax</sub> 8 hours
T24AL249-0001	PC STRAND (KM 4,5)	22:00-06:00	92.2	98.6

*Nattawat.*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 080 407 9059 e-mail : thidarat\_s@siw.co.th  
**MEASURING PLACE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**MEASURING TYPE** : WORKPLACE (NOISE)  
**MEASURING DATE** : MAY 23, 2024  
**MEASURING TIME** : \*  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : MISS CHAMANDA KIMAKOM

**RECEIVED DATE** : MAY 23, 2024  
**ANALYTICAL DATE** : MAY 23, 2024  
**ISSUE DATE** : MAY 29, 2024  
**REPORT NO.** : 2024-U046160  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL249-0002 - T24AL249-0004

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 8 hours	L <sub>Amax</sub> 8 hours
T24AL249-0002	PC WIRE (DRG 6,2)	08:40-16:40	89.3	97.7
T24AL249-0003	PE	08:43-16:43	77.3	87.8
T24AL249-0004	WIRE MESH (ควบคุมเครื่อง MESH 2)	08:46-16:46	94.7	114

*Nattawat.*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**ADDRESS** : 160 MOO 11 NONG LALOK BAN KHAI RAYONG 21120  
**CONTACT INFORMATION** : TEL : 080 407 9059 e-mail : thidarat\_s@siw.co.th  
**MEASURING PLACE** : THE SIAM INDUSTRIAL WIRE CO., LTD.  
**MEASURING TYPE** : WORKPLACE (NOISE)  
**MEASURING DATE** : MAY 24, 2024  
**MEASURING TIME** : \*  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : MISS CHAMANDA KIMAKOM

**RECEIVED DATE** : MAY 24, 2024  
**ANALYTICAL DATE** : MAY 24, 2024  
**ISSUE DATE** : MAY 29, 2024  
**REPORT NO.** : 2024-U046162  
**WORK NO.** : 2023-009915  
**ANALYSIS NO.** : T24AL249-0005

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 8 hours	L <sub>Amax</sub> 8 hours
T24AL249-0005	COLD DRAWN (จุดโต๊ะเขียนรายงาน)	08:30-16:30	82.5	99.9

*Nattawat.*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

