

ภาคผนวกที่ 29 - 5
คุณภาพน้ำผิวดิน

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุงของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : July 18, 2024

Work Request No. : 450/24
Sample Received Date : July 18, 2024
Report No. : 1169/24
Reported Date : July 30, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
180724/22	SW1 คลองสมบรูณ์ก่อนไหลผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	July 18, 2024	7.0	-	Clear, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	July 18, 2024	0.6	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	July 19-24, 2024	1.6	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	July 19, 2024	138	mg/L	Clear, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	July 26, 2024	<0.00005	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	July 24, 2024	0.96	mg/L	Clear, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	July 26, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	July 24, 2024	0.40	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	July 24, 2024	<0.02	mg/L	Clear, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
: Sampling is not accredited ISO/IEC 17025.
: ^{1/} Parameter are not accredited ISO/IEC 17025.

Wilasinee S.

(Ms. Wilasinee Sawangphan)

Chemist

July 30, 2024

Kasidit

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

July 30, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กสวตของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : July 18, 2024

Work Request No. : 450/24
Sample Received Date : July 18, 2024
Report No. : 1170/24
Reported Date : July 30, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
180724/23	SW2 คลองสมบูรณ์หลังไหลผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	July 18, 2024	6.8	-	Clear, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	July 18, 2024	2.1	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	July 19-24, 2024	1.8	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	July 19, 2024	177	mg/L	Clear, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	July 26, 2024	<0.00005	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	July 24, 2024	0.69	mg/L	Clear, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	July 26, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	July 24, 2024	0.33	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	July 24, 2024	0.03	mg/L	Clear, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
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: ^{1/} Parameter are not accredited ISO/IEC 17025.



Wilasinee S.
(Ms. Wilasinee Sawangphan)
Chemist
July 30, 2024

Kasidit Y.
(Mr. Kasidit Yasongkram)
Laboratory Supervisor
July 30, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุง
ของ บริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : August 29, 2024

Work Request No. : 567/24
Sample Received Date : August 29, 2024
Report No. : 1461/24
Reported Date : September 6, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290824/3	SW1 คลองสมบูรณก่อนไหล ผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	August 29, 2024	6.9	-	Clear, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	August 29, 2024	0.8	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	August 30- September 4, 2024	5.5	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	August 30, 2024	441	mg/L	Clear, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	September 6, 2024	<0.00005	mg/L	Clear, Sediment
		Iron ^{1/}	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	September 3, 2024	2.10	mg/L	Clear, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	September 6, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	September 3, 2024	0.94	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	September 3, 2024	<0.02	mg/L	Clear, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017,
part 3111 B and part 3030 F (procedure a).
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: ^{1/} Parameter are not accredited ISO/IEC 17025.

Wilasinee S.
(Ms. Wilasinee Sawangphan)
Chemist
September 6, 2024

Kasidit Y.
(Mr. Kasidit Yasongkram)
Laboratory Supervisor
September 6, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กวอดของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : August 29, 2024

Work Request No. : 567/24
Sample Received Date : August 29, 2024
Report No. : 1462/24
Reported Date : September 6, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290824/4	SW2 คลองสมบูรณ์หลังไหลผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	August 29, 2024	6.9	-	Yellow, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	August 29, 2024	1.5	mg/L	Yellow, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	August 30-September 4, 2024	0.4	mg/L	Yellow, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	August 30, 2024	168	mg/L	Yellow, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	September 6, 2024	<0.00005	mg/L	Yellow, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	September 3, 2024	0.88	mg/L	Yellow, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	September 6, 2024	<0.0020	mg/L	Yellow, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	September 3, 2024	0.87	mg/L	Yellow, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	September 3, 2024	<0.02	mg/L	Yellow, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
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: ^{1/} Parameter are not accredited ISO/IEC 17025.

Wilasinee S.

(Ms. Wilasinee Sawangphan)

Chemist

September 19, 2024

Kasidit Y.

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

September 6, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กลวด
ของบริษัท พยงชิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : September 26, 2024

Work Request No. : 638/24
Sample Received Date : September 27, 2024
Report No. : 1622/24
Reported Date : October 8, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
270924/35	SW1 คลองสมบรูณ์ก่อนไหลผ่านพื้นที่โครงการ 100 เมตร						
		pH ¹¹	Electrometric Method (4500-H ⁺ B) ¹¹	September 26, 2024	6.7	-	Yellow, Sediment
		Dissolved Oxygen ¹¹	Azide Modification (4500-O C) ¹¹	September 26, 2024	1.6	mg/L	Yellow, Sediment
		Biochemical Oxygen Demand ¹¹	5-Day BOD Test, Azide Modification Method (5210 B) ¹¹	September 28-October 3, 2024	0.6	mg/L	Yellow, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ¹¹	October 1, 2024	108	mg/L	Yellow, Sediment
		Cadmium ¹¹	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ¹¹	October 8, 2024	<0.00005	mg/L	Yellow, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ¹¹	October 2, 2024	0.54	mg/L	Yellow, Sediment
		Lead ¹¹	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ¹¹	October 1, 2024	<0.0020	mg/L	Yellow, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ¹¹	October 2, 2024	<0.04	mg/L	Yellow, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ¹¹	October 2, 2024	<0.02	mg/L	Yellow, Sediment

Method : ¹¹ Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ¹¹ In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ¹¹ STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
: Sampling is not accredited ISO/IEC 17025.
: ¹¹ Parameter are not accredited ISO/IEC 17025.

Wilasinee S.

(Ms. Wilasinee Sawangphan)

Chemist

October 8, 2024

Kasidit Y.

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

October 8, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุง
ของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : September 26, 2024

Work Request No. : 638/24
Sample Received Date : September 27, 2024
Report No. : 1623/24
Reported Date : October 8, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
270924/36	SW2 คลองสมบรูณ์หลังไหล ผ่านพื้นที่โครงการ 100 เมตร						
		pH ¹⁾	Electrometric Method (4500-H ⁺ B) ¹⁾	September 26, 2024	6.8	-	Yellow, Sediment
		Dissolved Oxygen ¹⁾	Azide Modification (4500-O C) ¹⁾	September 26, 2024	4.0	mg/L	Yellow, Sediment
		Biochemical Oxygen Demand ¹⁾	5-Day BOD Test, Azide Modification Method (5210 B) ¹⁾	September 28- October 3, 2024	0.6	mg/L	Yellow, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ¹⁾	October 1, 2024	134	mg/L	Yellow, Sediment
		Cadmium ¹⁾	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ¹⁾	October 8, 2024	<0.00005	mg/L	Yellow, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ¹⁾	October 2, 2024	0.75	mg/L	Yellow, Sediment
		Lead ¹⁾	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ¹⁾	October 1, 2024	<0.0020	mg/L	Yellow, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ¹⁾	October 2, 2024	0.06	mg/L	Yellow, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ¹⁾	October 2, 2024	0.02	mg/L	Yellow, Sediment

Method : ¹⁾ Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ²⁾ In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ³⁾ STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017,
part 3111 B and part 3030 F (procedure a).
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Wilasinee S.

(Ms. Wilasinee Sawangphan)

Chemist

October 8, 2024

Kasidit Y

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

October 9, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุงของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : October 22, 2024

Work Request No. : 728/24
Sample Received Date : October 22, 2024
Report No. : 1747/24
Reported Date : November 1, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
221024/1	SW1 คลองสมบรูณ์ก่อนไหลผ่านพื้นที่โครงการ 100 เมตร						
		pH ¹⁾	Electrometric Method (4500-H ⁺ B) ¹⁾	October 22, 2024	6.5	-	Clear, Sediment
		Dissolved Oxygen ¹⁾	Azide Modification (4500-O C) ¹⁾	October 22, 2024	1.6	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ¹⁾	5-Day BOD Test, Azide Modification Method (5210 B) ¹⁾	October 23-28, 2024	0.1	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ¹⁾	October 24, 2024	98.0	mg/L	Clear, Sediment
		Cadmium ¹⁾	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ¹⁾	October 31, 2024	<0.00005	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ¹⁾	October 28, 2024	0.24	mg/L	Clear, Sediment
		Lead ¹⁾	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ¹⁾	October 31, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ¹⁾	October 28, 2024	<0.04	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ¹⁾	October 31, 2024	<0.02	mg/L	Clear, Sediment

Method : ¹⁾ Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ¹⁾ In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ¹⁾ STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
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Wilasinee S
(Ms. Wilasinee Sawangphan)

Chemist

November 1, 2024

Kasidit Y
(Mr. Kasidit Yasongkram)

Laboratory Supervisor

November 1, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กจากของบริษัทยางชิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : October 22, 2024

Work Request No. : 728/24
Sample Received Date : October 22, 2024
Report No. : 1748/24
Reported Date : November 1, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
221024/2	SW2 คลองสมบรูณ์หลังไผ่ผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	October 22, 2024	6.6	-	Clear, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	October 22, 2024	2.9	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	October 23-28, 2024	0.3	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	October 24, 2024	122	mg/L	Clear, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	October 31, 2024	<0.00005	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	October 28, 2024	0.38	mg/L	Clear, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	October 31, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	October 28, 2024	<0.04	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	October 31, 2024	<0.02	mg/L	Clear, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
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: ^{1/} Parameter are not accredited ISO/IEC 17025.

Wilasinee S

(Ms. Wilasinee Sawangphan)

Chemist

November 1, 2024

Kasidit Y

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

November 1, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กสวด
ของบริษัทยังซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : November 7, 2024

Work Request No. : 775/24
Sample Received Date : November 8, 2024
Report No. : 1878/24
Reported Date : November 18, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
081124/11	SW1 คลองสมบรูณ์ก่อนไหลผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	November 7, 2024	6.3	-	Clear, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	November 7, 2024	0.6	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	November 8-13, 2024	2.1	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	November 8, 2024	164	mg/L	Clear, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	November 12, 2024	<0.00005	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	November 12, 2024	1.21	mg/L	Clear, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	November 12, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	November 12, 2024	0.28	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	November 12, 2024	<0.02	mg/L	Clear, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{2/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{3/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).
Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
: Sampling is not accredited ISO/IEC 17025.
: ^{1/} Parameter are not accredited ISO/IEC 17025.



Wilasinee S.
(Ms. Wilasinee Sawangphan)
Chemist
November 18, 2024

Kasidit Y
(Mr. Kasidit Yasongkram)
Laboratory Supervisor
November 18, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุงของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : November 7, 2024

Work Request No. : 775/24
Sample Received Date : November 8, 2024
Report No. : 1879/24
Reported Date : November 18, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
081124/12	SW2 คลองสมบรูณ์หลังไหล ผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	November 7, 2024	6.4	-	Clear, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	November 7, 2024	1.4	mg/L	Clear, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	November 8-13, 2024	0.3	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	November 8, 2024	166	mg/L	Clear, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	November 12, 2024	<0.00005	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	November 12, 2024	0.34	mg/L	Clear, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	November 12, 2024	<0.0020	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	November 12, 2024	0.18	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	November 12, 2024	<0.02	mg/L	Clear, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3111 B and part 3030 F (procedure a).

Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
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: ^{1/} Parameter are not accredited ISO/IEC 17025.

STS GROUP

Wilasinee S.

(Ms. Wilasinee Sawangphan)

Chemist

November 18, 2024

Kasidit Y

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

November 18, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุง
ของ บริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : December 16, 2024

Work Request No. : 856/24
Sample Received Date : December 16, 2024
Report No. : 2066/24
Reported Date : December 23, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
161224/12	SW1 คลองสมบุญร่ก่อนไหล ผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	December 16, 2024	6.3	-	Yellow, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	December 16, 2024	0.5	mg/L	Yellow, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	December 18-23, 2024	4.1	mg/L	Yellow, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	December 16, 2024	242	mg/L	Yellow, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	December 19, 2024	<0.00005	mg/L	Yellow, Sediment
		Iron ^{1/}	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	December 19, 2024	9.50	mg/L	Yellow, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	December 19, 2024	<0.0020	mg/L	Yellow, Sediment
		Manganese ^{1/}	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	December 19, 2024	5.18	mg/L	Yellow, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	December 19, 2024	<0.02	mg/L	Yellow, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017,
part 3111 B and part 3030 F (procedure a).
Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
: Sampling is not accredited ISO/IEC 17025.
: ^{1/} Parameter are not accredited ISO/IEC 17025.

wilasinee S.
(Ms. Wilasinee Sawangphan)

Chemist

December 23, 2024

Kasidit Y.
(Mr. Kasidit Yasongkram)

Laboratory Supervisor

December 23, 2024

TEST REPORT

Client : STS GREEN CO., LTD.
Address : 3/23 Moo. 5, Lat Sawai, Lum Luk Ka, Pathum Thani 12150, Thailand
Project Name : โครงการโรงงานผลิตเหล็กแท่งและผลิตภัณฑ์เหล็กที่ผลิตจากเหล็กถลุง
ของบริษัท หยงซิง สตีล (ไทยแลนด์) จำกัด
Sample Type : Surface water
Sampling By : Environmental Monitoring Section/STS GREEN COMPANY LIMITED.
Sampling Date : December 16, 2024

Work Request No. : 856/24
Sample Received Date : December 16, 2024
Report No. : 2067/24
Reported Date : December 23, 2024

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
161224/13	SW2 คลองสมบรูณ์หลังไหล ผ่านพื้นที่โครงการ 100 เมตร						
		pH ^{1/}	Electrometric Method (4500-H ⁺ B) ^{1/}	December 16, 2024	6.7	-	Yellow, Sediment
		Dissolved Oxygen ^{1/}	Azide Modification (4500-O C) ^{1/}	December 16, 2024	0.8	mg/L	Yellow, Sediment
		Biochemical Oxygen Demand ^{1/}	5-Day BOD Test, Azide Modification Method (5210 B) ^{1/}	December 18-23, 2024	1.5	mg/L	Yellow, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C) ^{1/}	December 16, 2024	174	mg/L	Yellow, Sediment
		Cadmium ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	December 19, 2024	<0.00005	mg/L	Yellow, Sediment
		Iron ^{1/}	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	December 19, 2024	4.75	mg/L	Yellow, Sediment
		Lead ^{1/}	Electrothermal Atomic Absorption Spectrometric Method (3113 B) ^{1/}	December 19, 2024	<0.0020	mg/L	Yellow, Sediment
		Manganese ^{1/}	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	December 19, 2024	3.92	mg/L	Yellow, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B) ^{1/}	December 19, 2024	<0.02	mg/L	Yellow, Sediment

Method : ^{1/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} In-house method : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017.
: ^{1/} STS-T-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017,
part 3111 B and part 3030 F (procedure a).
Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.
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: ^{1/} Parameter are not accredited ISO/IEC 17025.

Wilasinee S.

(Ms. Wilasinee Sawangphan)

Chemist

December 23, 2024

Kasidit Y

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

December 23, 2024