

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/8	MGW-1						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	494	mg/L as CaCO ₃	Clear, Sediment
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.2	mg/L	Clear, Sediment
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	11.1	mg/L	Clear, Sediment
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	<1.0	mg/L	Clear, Sediment
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.44	mg/L	Clear, Sediment
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	<0.010	mg/L	Clear, Sediment
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	1.19	mg/L	Clear, Sediment
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Clear, Sediment
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	355	mg/L	Clear, Sediment
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	996	mg/L	Clear, Sediment
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	395	mg/L as CaCO ₃	Clear, Sediment
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	<0.005	mg/L	Clear, Sediment
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Clear, Sediment

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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Prapaporn U
 (Ms. Prapaporn Kongdee)
 Chemist

July 13, 2015

Kasidit Y
 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor

July 13, 2015

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ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/8	MGW-1						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	<0.0002	mg/L	Clear, Sediment
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Clear, Sediment
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	72.04	mg/L	Clear, Sediment
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Clear, Sediment
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Clear, Sediment
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Clear, Sediment
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	59.34	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Clear, Sediment
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Clear, Sediment
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0063	mg/L	Clear, Sediment
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	3.98	mg/L	Clear, Sediment
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	291.01	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Clear, Sediment
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	17,000	MPN/100 mL	Clear, Sediment

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ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/9	MGW-2						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	345	mg/L as CaCO ₃	Yellow, Sediment
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.4	mg/L	Yellow, Sediment
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	<5.0	mg/L	Yellow, Sediment
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	<1.0	mg/L	Yellow, Sediment
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.52	mg/L	Yellow, Sediment
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	<0.010	mg/L	Yellow, Sediment
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	0.426	mg/L	Yellow, Sediment
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Yellow, Sediment
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	164	mg/L	Yellow, Sediment
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Yellow, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	456	mg/L	Yellow, Sediment
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	243	mg/L as CaCO ₃	Yellow, Sediment
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	0.028	mg/L	Yellow, Sediment
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Yellow, Sediment

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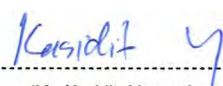
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290615/9	MGW-2						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	<0.0002	mg/L	Yellow, Sediment
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Yellow, Sediment
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	47.27	mg/L	Yellow, Sediment
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Yellow, Sediment
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Yellow, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Yellow, Sediment
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Yellow, Sediment
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	21.05	mg/L	Yellow, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	0.21	mg/L	Yellow, Sediment
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Yellow, Sediment
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0033	mg/L	Yellow, Sediment
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	19.37	mg/L	Yellow, Sediment
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	108.76	mg/L	Yellow, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Yellow, Sediment
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	4.0	MPN/100 mL	Yellow, Sediment

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ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/10	MGW-3						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	529	mg/L as CaCO ₃	Clear
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.4	mg/L	Clear
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	12.7	mg/L	Clear
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	<1.0	mg/L	Clear
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.50	mg/L	Clear
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	<0.010	mg/L	Clear
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	1.20	mg/L	Clear
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Clear
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	162	mg/L	Clear
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Clear
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	660	mg/L	Clear
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	203	mg/L as CaCO ₃	Clear
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	<0.005	mg/L	Clear
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Clear

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290615/10	MGW-3						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	<0.0002	mg/L	Clear
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Clear
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	28.52	mg/L	Clear
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Clear
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Clear
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Clear
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Clear
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	39.28	mg/L	Clear
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Clear
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Clear
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0032	mg/L	Clear
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	1.59	mg/L	Clear
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	171.56	mg/L	Clear
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Clear
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	130	MPN/100 mL	Clear

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ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/11	MGW-4						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	279	mg/L as CaCO ₃	Yellow, Clear
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.3	mg/L	Yellow, Clear
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	6.4	mg/L	Yellow, Clear
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	1.4	mg/L	Yellow, Clear
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.45	mg/L	Yellow, Clear
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	0.024	mg/L	Yellow, Clear
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	3.07	mg/L	Yellow, Clear
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Yellow, Clear
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	444	mg/L	Yellow, Clear
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Yellow, Clear
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	844	mg/L	Yellow, Clear
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	390	mg/L as CaCO ₃	Yellow, Clear
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	0.024	mg/L	Yellow, Clear
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Yellow, Clear

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290615/11	MGW-4						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	<0.0002	mg/L	Yellow, Clear
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Yellow, Clear
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	80.17	mg/L	Yellow, Clear
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Yellow, Clear
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Yellow, Clear
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	0.43	mg/L	Yellow, Clear
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Yellow, Clear
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	45.36	mg/L	Yellow, Clear
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Yellow, Clear
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Yellow, Clear
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0050	mg/L	Yellow, Clear
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	4.12	mg/L	Yellow, Clear
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	199.14	mg/L	Yellow, Clear
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Yellow, Clear
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	<1.8	MPN/ 100 mL	Yellow, Clear

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290615/12	MGW-5						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	203	mg/L as CaCO ₃	Clear, Sediment
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.2	mg/L	Clear, Sediment
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	12.7	mg/L	Clear, Sediment
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	44.6	mg/L	Clear, Sediment
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.56	mg/L	Clear, Sediment
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	<0.010	mg/L	Clear, Sediment
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	0.695	mg/L	Clear, Sediment
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Clear, Sediment
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	452	mg/L	Clear, Sediment
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Clear, Sediment
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	856	mg/L	Clear, Sediment
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	454	mg/L as CaCO ₃	Clear, Sediment
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	0.018	mg/L	Clear, Sediment
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	10.0	mg/L	Clear, Sediment

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Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/12	MGW-5						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	<0.0002	mg/L	Clear, Sediment
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Clear, Sediment
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	78.75	mg/L	Clear, Sediment
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Clear, Sediment
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Clear, Sediment
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Clear, Sediment
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Clear, Sediment
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	57.51	mg/L	Clear, Sediment
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Clear, Sediment
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Clear, Sediment
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0039	mg/L	Clear, Sediment
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	3.02	mg/L	Clear, Sediment
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	90.75	mg/L	Clear, Sediment
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Clear, Sediment
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	16,000	MPN/ 100 mL	Clear, Sediment

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

Remarks : Reported results refer to submitted samples only. This analytical report will not be reproduced in part for such purposes.

Prapaporn 4
 (Ms. Prapaporn Kongdee)
 Chemist

July 13, 2015

Kasidit 4
 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor

July 13, 2015

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/13	MGW-6						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	767	mg/L as CaCO ₃	Clear
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.1	mg/L	Clear
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	15.9	mg/L	Clear
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	<1.0	mg/L	Clear
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.61	mg/L	Clear
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	0.016	mg/L	Clear
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	2.70	mg/L	Clear
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Clear
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	407	mg/L	Clear
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Clear
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	1,176	mg/L	Clear
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	253	mg/L as CaCO ₃	Clear
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	0.010	mg/L	Clear
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Clear

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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 (Ms. Prapaporn Kongdee)
 Chemist
 July 13, 2015


 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor
 July 13, 2015

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/13	MGW-6						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	0.0004	mg/L	Clear
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Clear
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	26.68	mg/L	Clear
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Clear
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Clear
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Clear
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Clear
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	36.75	mg/L	Clear
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Clear
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Clear
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0067	mg/L	Clear
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	3.08	mg/L	Clear
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	422.16	mg/L	Clear
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Clear
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	13	MPN/ 100 mL	Clear

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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 Chemist
 July 13, 2015


 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor
 July 13, 2015

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/14	MGW-7						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	671	mg/L as CaCO ₃	Clear
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.1	mg/L	Clear
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	8.0	mg/L	Clear
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	<1.0	mg/L	Clear
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.84	mg/L	Clear
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	0.019	mg/L	Clear
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	3.94	mg/L	Clear
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Clear
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	402	mg/L	Clear
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Clear
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	1,120	mg/L	Clear
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	295	mg/L as CaCO ₃	Clear
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	0.006	mg/L	Clear
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Clear

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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 (Ms. Prapaporn Kongdee)
 Chemist
 July 13, 2015


 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor
 July 13, 2015

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/14	MGW-7						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	<0.0002	mg/L	Clear
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Clear
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	33.79	mg/L	Clear
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Clear
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Clear
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Clear
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Clear
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	42.61	mg/L	Clear
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Clear
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Clear
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0073	mg/L	Clear
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	2.65	mg/L	Clear
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	347.59	mg/L	Clear
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Clear
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	40	MPN/ 100 mL	Clear

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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Prapaporn U
 (Ms. Prapaporn Kongdee)
 Chemist
 July 13, 2015

Kasidit Y.
 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor
 July 13, 2015

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/15	MGW-8						
		Alkalinity	Titration Method (2320 B)	July 5, 2015	668	mg/L as CaCO ₃	Clear
		Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method (5210 B)	June 29 - July 4, 2015	0.2	mg/L	Clear
		Chemical Oxygen Demand	Open Reflux Method (5220 B)	July 4, 2015	<5.0	mg/L	Clear
		Chloride	Mercuric Nitrate Method (4500-Cl ⁻ C)	July 3, 2015	<1.0	mg/L	Clear
		Fluoride	SPADNS Method (4500-F ⁻ D)	July 5, 2015	0.85	mg/L	Clear
		Nitrogen (Ammonia)	Phenate Method (4500-NH ₃ F)	July 4, 2015	0.024	mg/L	Clear
		Nitrogen (Nitrate)	Cadmium Reduction Method (4500-NO ₃ ⁻ E)	June 30, 2015	1.88	mg/L	Clear
		Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	July 4, 2015	<5.0	mg/L	Clear
		Sulfate	Turbidimetric Method (4500-SO ₄ ²⁻ E)	July 2, 2015	402	mg/L	Clear
		Sulfide	Iodometric Method (4500-S ²⁻ F)	June 30, 2015	<1.0	mg/L	Clear
		Total Dissolved Solids	Dried at 180 °C Method (2540 C)	June 30, 2015	1,218	mg/L	Clear
		Total Hardness	EDTA Titrimetric Method (2340 C)	July 4, 2015	185	mg/L as CaCO ₃	Clear
		Total Phosphorus	Acid digestion, Ascorbic Acid Method (4500-P B&E)	June 29, 2015	0.017	mg/L	Clear
		Total Suspended Solids	Dried at 103-105 °C Method (2540 D)	June 30, 2015	<2.5	mg/L	Clear

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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Prapaporn K

(Ms. Prapaporn Kongdee)

Chemist

July 13, 2015

Kasidit Y

(Mr. Kasidit Yasongkram)

Laboratory Supervisor

July 13, 2015

TEST REPORT

Client : ERM Siam Co., Ltd.
Address : 179 Bangkok City Tower, 24th Floor, South Sathorn Road, Tungmahamek, Sathorn, Bangkok, 10120
Project Name : Myingyan IPP Project
Sample Type : Groundwater
Sampling By : ERM Siam Co., Ltd. **Sampling Date** : June 17, 2015
Work Request No. : 381/15 **Sample Received Date** : June 29, 2015
Report No. : 393/15 **Reported Date** : July 13, 2015

ID.No.	Sample Name	Parameters	Analytical Methods	Analytical Date	Results	Units	Sample Description
290615/15	MGW-8						
		Arsenic	Hydride Generation Atomic Absorption Spectrometric Method (3114 C)	July 7, 2015	0.0007	mg/L	Clear
		Cadmium	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.00005	mg/L	Clear
		Calcium	Direct Nitrous Oxide-Acetylene Flame Method (3111 D)	July 5, 2015	17.24	mg/L	Clear
		Hexavalent Chromium	Extraction, Air-Acetylene Flame Method (3111 C)	June 30, 2015	<0.01	mg/L	Clear
		Copper	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.03	mg/L	Clear
		Iron	Direct Air-Acetylene Flame Method (3111 B)	July 2, 2015	<0.05	mg/L	Clear
		Lead	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 5, 2015	<0.0020	mg/L	Clear
		Magnesium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	28.19	mg/L	Clear
		Manganese	Direct Air-Acetylene Flame Method (3111 B)	July 4, 2015	<0.02	mg/L	Clear
		Mercury	Cold-Vapor Atomic Absorption Spectrometric Method (3112 B)	July 1, 2015	<0.0003	mg/L	Clear
		Nickel	Electrothermal Atomic Absorption Spectrometric Method (3113 B)	July 2, 2015	0.0069	mg/L	Clear
		Potassium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	2.44	mg/L	Clear
		Sodium	Direct Air-Acetylene Flame Method (3111 B)	July 5, 2015	401.54	mg/L	Clear
		Zinc	Direct Air-Acetylene Flame Method (3111 B)	July 3, 2015	<0.01	mg/L	Clear
		Total Coliform Bacteria	Multiple-Tube Fermentation Technique Method (9221 B)	July 3-6, 2015	21	MPN/ 100 mL	Clear

Method : Standard Methods for Examination of Water and Wastewater 22nd Edition 2012 (AWWA, APHA, WEF)

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 (Ms. Prapaporn Kongdee)
 Chemist
 July 13, 2015


 (Mr. Kasidit Yasongkram)
 Laboratory Supervisor
 July 13, 2015

STS Green Co., Ltd
3/23 Moo 5, Phahonyothin-Lumlukka Rd., Lad Sawai
Lumlukka, Pathumthani, Thailand 12150

Project: Myingyan IPP Project
Project Number: 5258051M
Project Manager: Wichit Patcha

Reported:
16-Jul-15 12:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MGW-1	TYG0001-01	Water	16-Jun-15 12:00	01-Jul-15 13:20
MGW-2	TYG0001-02	Water	16-Jun-15 12:00	01-Jul-15 13:20
MGW-3	TYG0001-03	Water	16-Jun-15 12:00	01-Jul-15 13:20
MGW-4	TYG0001-04	Water	16-Jun-15 12:00	01-Jul-15 13:20
MGW-5	TYG0001-05	Water	16-Jun-15 12:00	01-Jul-15 13:20
MGW-6	TYG0001-06	Water	20-Jun-15 12:00	01-Jul-15 13:20
MGW-7	TYG0001-07	Water	20-Jun-15 12:00	01-Jul-15 13:20
MGW-8	TYG0001-08	Water	20-Jun-15 12:00	01-Jul-15 13:20

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Thundathorn Sukanan, Project Management Manager

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A TestAmerica Company

Page 1 of 6

STS Green Co., Ltd
3/23 Moo 5, Phahonyothin-Lumlukka Rd., Lad Sawai
Lumlukka, Pathumthani, Thailand 12150

Project: Myingyan IPP Project
Project Number: 5258051M
Project Manager: Wichit Patcha

Reported:
16-Jul-15 12:46

Metals (ICP) Total Recoverable
TestAmerica Tacoma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MGW-1 (TYG0001-01) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-2 (TYG0001-02) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-3 (TYG0001-03) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-4 (TYG0001-04) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-5 (TYG0001-05) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-6 (TYG0001-06) Water Sampled: 20-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-7 (TYG0001-07) Water Sampled: 20-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	
MGW-8 (TYG0001-08) Water Sampled: 20-Jun-15 12:00 Received: 01-Jul-15 13:20									
Tin	ND	0.10	mg/L	1	194586	10-Jul-15	13-Jul-15	6010C	

ncalabs co., ltd.

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Thundathorn Sukanan, Project Management Manager

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A TestAmerica Company

Page 2 of 6

STS Green Co., Ltd
3/23 Moo 5, Phahonyothin-Lumlukka Rd., Lad Sawai
Lumlukka, Pathumthani, Thailand 12150

Project: Myingyan IPP Project
Project Number: 5258051M
Project Manager: Wichit Patcha

Reported:
16-Jul-15 12:46

Organic Carbon, Total (TOC)
TestAmerica Tacoma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MGW-1 (TYG0001-01) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	ND	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-2 (TYG0001-02) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	1.9	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-3 (TYG0001-03) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	ND	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-4 (TYG0001-04) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	ND	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-5 (TYG0001-05) Water Sampled: 16-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	ND	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-6 (TYG0001-06) Water Sampled: 20-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	1.2	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-7 (TYG0001-07) Water Sampled: 20-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	1.2	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	
MGW-8 (TYG0001-08) Water Sampled: 20-Jun-15 12:00 Received: 01-Jul-15 13:20									
Total Organic Carbon	1.1	1.0	mg/L	1	194642	10-Jul-15	10-Jul-15	SM 5310B	

STS Green Co., Ltd
3/23 Moo 5, Phahonyothin-Lumlukka Rd., Lad Sawai
Lumlukka, Pathumthani, Thailand 12150

Project: Myingyan IPP Project
Project Number: 5258051M
Project Manager: Wichit Patcha

Reported:
16-Jul-15 12:46

Metals (ICP) Total Recoverable - Quality Control
TestAmerica Tacoma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 194586: Prepared 10-Jul-15 Using 3005A

Blank (194714-36)

Source:

Tin	ND	0.10	mg/L							
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LCS (194714-37)

Source:

Tin	4.70	0.10	mg/L	5.00		94	80-120			
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LCS Dup (194714-38)

Source:

Tin	4.76	0.10	mg/L	5.00		95	80-120	1	20	
-----	------	------	------	------	--	----	--------	---	----	--



STS Green Co., Ltd
3/23 Moo 5, Phahonyothin-Lumlukka Rd., Lad Sawai
Lumlukka, Pathumthani, Thailand 12150

Project: Myingyan IPP Project
Project Number: 5258051M
Project Manager: Wichit Patcha

Reported:
16-Jul-15 12:46

Organic Carbon, Total (TOC) - Quality Control

TestAmerica Tacoma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	-------	-----	-------	-------

Batch 194642: Prepared 10-Jul-15 Using NA

Blank (194642-1)

Source:

Total Organic Carbon ND 1.0 mg/L

LCS (194642-2)

Source:

Total Organic Carbon 10.1 1.0 mg/L 10.0 101 85-115

Matrix Spike Dup (514231D)

Source: TYG0001-01

Total Organic Carbon 12.2 1.0 mg/L 10.0 ND 113 85-115 6 20

Matrix Spike (514231S)

Source: TYG0001-01

Total Organic Carbon 11.4 1.0 mg/L 10.0 ND 106 85-115

Duplicate (514231X)

Source: TYG0001-01

Total Organic Carbon ND 1.0 mg/L ND - NC 20

ncalabs co., ltd.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Thundathorn Sukanan

Thundathorn Sukanan, Project Management Manager

ncalabs co., ltd
A TestAmerica Company

Page 5 of 6

STS Green Co., Ltd
3/23 Moo 5, Phahonyothin-Lumlukka Rd., Lad Sawai
Lumlukka, Pathumthani, Thailand 12150

Project: Myingyan IPP Project
Project Number: 5258051M
Project Manager: Wichit Patcha

Reported:
16-Jul-15 12:46

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

ncalabs co., ltd.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Thundathorn Sukanan, Project Management Manager

ncalabs co., ltd
A TestAmerica Company

TEST REPORT

Report : NCA-TYG0001
Customer : STS Green Co., Ltd
Address : 3/23 Moo 5, Phahonyothin-Lumlukka Road
Lad Sawai, Lumlukka
Pathumthani, Thailand
Project : Myingyan IPP Project

Report Date : July 16, 2015
Received Date : July 02, 2015
Analytical Date : July 06, 2015
Sample Description : Water Sample Matrix
Sampling by : Customer
Project Manager : Wichit Patcha

Analytical Report for Samples

Laboratory ID	Parameter Total Cyanide	Reporting Limit	Unit	Method of Analysis
TYG0001-01 (MGW-1)	<0.001 (H)	0.001	mg/L	APHA, 22 nd edition, 2012, 4500-CN ⁻ C,E
TYG0001-02 (MGW-2)	<0.001 (H)	0.001	mg/L	
TYG0001-03 (MGW-3)	<0.001 (H)	0.001	mg/L	
TYG0001-04 (MGW-4)	<0.001 (H)	0.001	mg/L	
TYG0001-05 (MGW-5)	<0.001 (H)	0.001	mg/L	
TYG0001-06 (MGW-6)	<0.001 (H)	0.001	mg/L	
TYG0001-07 (MGW-7)	0.001 (H)	0.001	mg/L	
TYG0001-08 (MGW-8)	0.001 (H)	0.001	mg/L	

Analytical Report for Quality Control

Quality Control	Total Cyanide
Blank, mg/L	<0.001
Duplicate (TYG0001-08), % RPD	0.00
Matrix Spike (TYG0001-01), % Recovery	101.67

- Remark :**
1. Total Cyanide analysis performed by Analytical Laboratory Service Co., Ltd. (7.026/1)
 2. All samples analysis on July 06, 2015 : 09.00 am.
 3. All samples analysis performed part method specified holding time



Analysis / Test Report

TESTING
No.0009

Report to : STS Green Co., Ltd.

3/23 Moo 5, Lat Sawai, Lam Luk Ka, Pathum
Thani Thailand 12150

Attn : Siriwan Hudnaked

Phone : 0-2153-7001 - 6

Fax : 0-2153-7007

Email : siriwan.hudnaked@gmail.com

Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :

Location :

P/O :

Receipt No :

Lot ID: 1531081

Date Received : Jun 30, 2015

Date Reported : Jul 03, 2015

Report Number : 582782-1

Page 3 of 10

Reference Number 1531081-3
Sampling Date Jun 16, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-1
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	1.1	Based on APHA (2012), Calculated

Technical Management

Nanthawadee Somboon
Scientist (4)

ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Yupaporn Chanpleng
Senior Manager

ทะเบียนเลขที่ ว-204-ค-4700

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3/23 Moo 5, Lat Sawai, Lam Luk Ka, Pathum
Thani Thailand 12150
Attn : Siriwan Hudnaked
Phone : 0-2153-7001 - 6
Fax : 0-2153-7007
Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081

Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

Page 4 of 10

Reference Number 1531081-4
Sampling Date Jun 16, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-2
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	<1.0	Based on APHA (2012), Calculated

Technical Management

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Fax : 0-2153-7007
Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081
Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

Page 5 of 10

Reference Number 1531081-5
Sampling Date Jun 16, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-3
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	<1.0	Based on APHA (2012), Calculated

Technical Management

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Fax : 0-2153-7007
Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081

Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

Page 6 of 10

Reference Number 1531081-6
Sampling Date Jun 16, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-4
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	2.9	Based on APHA (2012), Calculated

Technical Management

Nant Somb

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Y. Chanpleng

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Thani Thailand 12150
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Fax : 0-2153-7007
Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081

Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

Page 7 of 10

Reference Number 1531081-7
Sampling Date Jun 16, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-5
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	<1.0	Based on APHA (2012), Calculated

Technical Management

Nant Somb

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Y. Chanpleng

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Fax : 0-2153-7007
Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081

Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

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Reference Number 1531081-8
Sampling Date Jun 20, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-6
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	2.3	Based on APHA (2012), Calculated

Technical Management

Nant Somb

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Y. Chanpleng

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Fax : 0-2153-7007
Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081
Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

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Reference Number 1531081-9
Sampling Date Jun 20, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-7
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	4.4	Based on APHA (2012), Calculated

Technical Management

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Email : siriwan.hudnaked@gmail.com
Cc.Email : green@sts.co.th ; siriwan.h@sts.co.th

Project :
Location :
P/O :
Receipt No :

Lot ID: 1531081

Date Received : Jun 30, 2015
Date Reported : Jul 03, 2015
Report Number : 582782-1

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Reference Number 1531081-10
Sampling Date Jun 20, 2015
Project Name Myingyan IPP Project
Sample Description Ground Water
Location MGW-8
Condition of Sample contained in one plastic bottle (client container)
Date of Analysis Jul 01, 2015

Analyte	Unit	LOD	LOQ	Result	Method
Water Testing					
Total Nitrogen *	mg/L	-	1.0	1.5	Based on APHA (2012), Calculated

Remark :

1. LOD : Limit of Detection
2. "<" : Lower than LOQ (Limit of Quantitation)
3. Analyte(s) marked * is/are not included in scope of Accreditation.

Technical Management

Nant Somb

Nanthawadee Somboon
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4716

Approved by

Y. Chanpleng

Yupaporn Chanpleng
Senior Manager
ทะเบียนเลขที่ ว-204-ค-4700

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Quality Control Report

Client : STS Green Co., Ltd.
Lot ID : 1531081-1 to 10
Received Date : June 30, 2015

page 1 of 1

Analyte	Method Blank		Duplicate (%RPD)		Spike Sample (%Recovery)	
	Result	Criteria	Result	Criteria	Result	Criteria
Water Testing						
Residual Free Chlorine	<0.01	<0.01	n/a	10	-	-
Total Nitrogen	<1.0	<1.0	-	-	-	-

Remark

n/a = %RPD is not applicable for results less than Limit of Quantitative (no RPD is reported).

Approved By

Yupaporn Chanpleng
Senior Manager