Name of Laboratory	: Environmental Research and Training Center,
	Department of Environmental Quality Promotion
Address	: 34 Moo 3, Technopolis, Tambon Klong 5, Amphoe Klong Luang,
	Changwat Pathumthani 12120
Accreditation Number	: Testing – 0019
Contact Person	: Ms. Sunantha Boonprakong
	Phone : 0-2577-4182
	Fax : 0-2577-1138
	E-mail : Sunantha20@gmail.com
Initial Issue Date	: 25 th September 2007
Issue Date	: 27 th February 2023
Expired Date	: 26 th February 2027
Standard	: ISO/IEC 17025:2017
Reference No.	: 0303/3313

Laboratory Name	: Environmental Research and Training Center,
	Department of Environmental Quality Promotion
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	Changwat Pathumthani 12120

Accreditation Number : Testing - 0019

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🛛 Temporary 🗍 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Water	- Nitrite as Nitrogen	In - house method : WI-9-1-S1001		
		0.010 mg/L to 1.0 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - NO ₂ ⁻ B		
		- Nitrate as Nitrogen	In - house method : WI-9-1-S1002		
		0.050 mg/L to 2.0 mg/L	based on Standard Methods for the		
		0.000 mg/E to 2.0 mg/E	Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - NO ₃ ⁻ B		
		- Total suspended solids	In - house method : WI-9-1-S4002		
		dried at 103 °C to 105 °C	based on Standard Methods for the		
		10 mg/L to 5 000 mg/L	Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 2540 D		

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Laboratory Name	: Envir	onme	enta	Il Res	search a	nd ⁻	Train	ing	Center	<i>,</i>	
	5			с г				1	6		

Department of Environmental Quality Promotion

Address : 34 Moo 3, Technopolis, Tambon Klong 5, Amphoe Klong Luang,

Changwat Pathumthani 12120

Accreditation Number : Testing - 0019

Laborator	Laboratory Status : 🗹 Permanent 🗆 Site 🛛 Temporary 🔲 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Water	- Total solids	In - house method : WI-9-1-S4001		
(cont.)		dried at 103 °C to 105 °C	based on Standard Methods for the		
		100 mg/L to 10 000 mg/L	Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 2540 B		
		- Total dissolved solids	Standard Methods for the Examination		
		dried at 180 °C	of Water and Wastewater, APHA,		
		100 mg/L to 5 000 mg/L	AWWA & WEF, 23 rd ed., 2017,		
			part 2540 C		
		- Total phosphorus	In - house method : WI-9-1-S1003		
		0.050 mg/L to 0.90 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - P B, part 4500 - P E		
1					

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Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Water	- Total nitrogen	In - house method : WI-9-1-S1004		
(cont.)		0.050 mg/L to 5.0 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - N C, part 4500 - NO ₃ B		
		- Alkalinity	In - house method : WI-9-1-S6001		
		(Calculated as $CaCO_3$)	based on Standard Methods for the		
		20 mg/L to 500 mg/L	Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 2320 B		
		- COD	In - house method : WI-9-1-S2003		
		40 mg/L to 400 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 5220 C		

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Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗍 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Water	- Hardness	In - house method : WI-9-1-S6003		
(cont.)		(Calculated as CaCO ₃)	based on Standard Methods for the		
		20 mg/L to 500 mg/L	Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 2340 C		
		- Chloride	In - house method : WI-9-1-S7002		
		10 mg/L to 500 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - Cl [®] B		
		- Cadmium	In - house method : WI-9-1-S3002		
		0.010 mg/L to 5.0 mg/L	based on Standard Methods for the		
		- Total chromium	Examination of Water and Wastewater,		
		0.010 mg/L to 5.0 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,		
		- Manganese	part 3120 B, 3030 E		
		0.010 mg/L to 5.0 mg/L			

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Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Water	- Copper	In - house method : WI-9-1-S3002		
(cont.)		0.010 mg/L to 5.0 mg/L	based on Standard Methods for the		
		- Lead	Examination of Water and Wastewater,		
		0.030 mg/L to 5.0 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,		
		- Iron	part 3120 B, 3030 E		
		0.050 mg/L to 5.0 mg/L			
		- Magnesium			
		1.0 mg/L to 50 mg/L			
		- Barium			
		0.015 mg/L to 5.0 mg/L			
		- Nickel			
		0.030 mg/L to 5.0 mg/L			
		- Zinc			
		0.040 mg/L to 5.0 mg/L			
		- Cobalt			
		0.010 mg/L to 5.0 mg/L			

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Laborator	Laboratory Status : 🗹 Permanent 🗆 Site 🛛 Temporary 💭 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Water	- Selenium	In - house method : WI-9-1-53002		
(cont.)		0.10 mg/L to 5.0 mg/L	based on Standard Methods for the		
		- Arsenic	Examination of Water and Wastewater,		
		0.050 mg/L to 5.0 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,		
		- Boron	part 3120 B, 3030 E		
		0.050 mg/L to 5.0 mg/L			
		- Molybdenum			
		0.10 mg/L to 5.0 mg/L			
2	Wastewater	- Nitrite as Nitrogen	In - house method : WI-9-1-S1001		
		0.010 mg/L to 1.0 mg/L	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 4500 - NO ₂ B		

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Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Wastewater	- Nitrate as Nitrogen	In - house method : WI-9-1-S1002	
(cont.)		0.050 mg/L to 2.0 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 4500 - NO ₃ B	
		- Total suspended solids	In - house method : WI-9-1-S4002	
		dried at 103 °C to 105 °C	based on Standard Methods for the	
		10 mg/L to 5 000 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 2540 D	
		- Total solids	In - house method : WI-9-1-S4001	
		dried at 103 °C to 105 °C	based on Standard Methods for the	
		100 mg/L to 10 000 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 2540 B	

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Laborator	ry Status 🛛 : 🗹 Peri	manent 🛛 Site 🗖 Tempo	rary 🔲 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Total dissolved solids	Standard Methods for the Examination
(cont.)		dried at 180 °C	of Water and Wastewater, APHA,
		100 mg/L to 5 000 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C
		- Total phosphorus	In - house method : WI-9-1-S1003
		0.050 mg/L to 0.90 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500 - P B, part 4500 - P E
		- Total nitrogen	In - house method : WI-9-1-S1004
		0.050 mg/L to 5.0 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500 - N C, part 4500 - NO_3^- B

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Accreditation Number : Testing - 0019

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🛛 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Wastewater	- Alkalinity	In - house method : WI-9-1-S6001	
(cont.)		(Calculated as CaCO ₃)	based on Standard Methods for the	
		20 mg/L to 500 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 2320 B	
		- COD	In - house method : WI-9-1-S2003	
		40 mg/L to 400 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 5220 C	
		- Hardness	In - house method : WI-9-1-S6003	
		(Calculated as CaCO ₃)	based on Standard methods for the	
		20 mg/L to 500 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 2340 C	

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Wastewater	- Chloride	In - house method : WI-9-1-S7002	
(cont.)		10 mg/L to 500 mg/L	based on Standard methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 4500-Cl [®] B	
		- Cadmium	In - house method : WI-9-1-S3002	
		0.010 mg/L to 5.0 mg/L	based on Standard Methods for the	
		- Total Chromium	Examination of Water and Wastewater,	
		0.010 mg/L to 5.0 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,	
		- Manganese	part 3120 B, 3030 E	
		0.010 mg/L to 5.0 mg/L		
		- Copper		
		0.010 mg/L to 5.0 mg/L		
		- Lead		
		0.030 mg/L to 5.0 mg/L		

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Wastewater	- Iron	In - house method : WI-9-1-S3002	
(cont.)		0.050 mg/L to 5.0 mg/L	based on Standard Methods for the	
		- Magnesium	Examination of Water and Wastewater,	
		1.0 mg/L to 50 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,	
		- Barium	part 3120 B, 3030 E	
		0.015 mg/L to 5.0 mg/L		
		- Nickel		
		0.030 mg/L to 5.0 mg/L		
		- Zinc		
		0.040 mg/L to 5.0 mg/L		
		- Cobalt		
		0.010 mg/L to 5.0 mg/L		
		- Selenium		
		0.10 mg/L to 5.0 mg/L		

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Laborato	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗍 Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Wastewater	- Arsenic	In - house method : WI-9-1-53002	
(cont.)		0.050 mg/L to 5.0 mg/L	based on Standard Methods for the	
		- Boron	Examination of Water and Wastewater,	
		0.050 mg/L to 5.0 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,	
		- Molybdenum	part 3120 B, 3030 E	
		0.10 mg/L to 5.0 mg/L		
3	Ground water	Volatile Organic Compounds	In - house method : WI-9-1-G1001	
		- 1,2-Dichloroethane	based on United State Environmental	
		- <i>cis</i> - 1,2-Dichloroethylene	Protection Agency, 2018, EPA Method 8260 D,	
		- Carbon tetrachloride	Revision 4	
		- Tetrachloroethylene		
		- Trichloroethylene		
		3.0 µg/L to 50 µg/L		

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		_				

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
3	Ground water	Volatile Organic Compounds	In - house method : WI-9-1-G1001	
(cont.)		- trans - 1,2-Dichloroethylene	based on United State Environmental	
		- 1,1,1,- Trichloroethane	Protection Agency, 2018, EPA Method 8260 D,	
		- Benzene	Revision 4	
		- 1,1,2- Trichloroethane		
		- Styrene		
		- 1,1-Dichloroethylene		
		3.0 µg/L to 50 µg/L		
4	Surface water	- Bromide	In - house method : WI-9-1-S8001	
		- Phosphate	based on United States Environmental	
		- Sulfate	Protection Agency, 1993, EPA Method 300.0,	
		- Nitrate	Revision 2.1	
		1.0 mg/L to 50 mg/L		

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
5	Rain water	- Mercury	In - house method: WI-9-1-A7001	
		2.0 ng/L to 20 ng/L	based on Method 1631, Revision E: Mercury	
			in Water by Oxidation, Purge and Trap, and	
			Cold Vapor Atomic Fluorescence	
			Spectrometry, August 2002	
6	Ambient air	- Formaldehyde	In - house method : WI-9-1-A2001	
		0.86 µg/m³ to 38 µg/m³	based on United States Environmental	
		- Acetaldehyde	Protection Agency, 1999, EPA Method TO-11A,	
		0.90 µg/m ³ to 39 µg/m ³	2 nd ed. (Include sampling)	
		- Propionaldehyde		
		0.94 µg/m ³ to 37 µg/m ³		
		- Benzaldehyde		
		0.94 µg/m ³ to 35 µg/m ³		
		- Crotonaldehyde		
		0.90 µg/m³ to 38 µg/m³		
		- Butylaldehyde		
		0.86 µg/m ³ to 38 µg/m ³		

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ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	Ambient air	PCDDs	Manual for Examining Dioxin in Ambient
(cont.)		- 2,3,7,8-TCDD	air 2008. Office of Dioxin Control Water & Air
		- 1,2,3,7,8-PeCDD	Quality Management Division Environmental
		0.02 pg/m ³ to 40 pg/m ³	Management Bureau Ministry of the
			Environment, Japan
		- 1,2,3,4,7,8-HxCDD	(Include sampling)
		- 1,2,3,6,7,8-HxCDD	
		- 1,2,3,7,8,9-HxCDD	
		- 1,2,3,4,6,7,8-HpCDD	
		0.04 pg/m ³ to 80 pg/m ³	
		- OCDD	
		0.1 pg/m ³ to 200 pg/m ³	
		PCDFs	
		- 2,3,7,8-TCDF	
		- 1,2,3,7,8-PeCDF	
		- 2,3,4,7,8-PeCDF	
		0.02 pg/m ³ to 40 pg/m ³	

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Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
6	Ambient air	PCDFs	Manual for Examining Dioxin in Ambient	
(cont.)		- 1,2,3,4,7,8-HxCDF	air 2008. Office of Dioxin Control Water & Air	
		- 1,2,3,6,7,8-HxCDF	Quality Management Division Environmental	
		- 2,3,4,6,7,8-HxCDF	Management Bureau Ministry of the	
		- 1,2,3,7,8,9-HxCDF	Environment, Japan	
		- 1,2,3,4,6,7,8-HpCDF	(Include sampling)	
		- 1,2,3,4,7,8,9-HpCDF		
		0.04 pg/m ³ to 80 pg/m ³		
		- OCDF		
		0.1 pg/m ³ to 200 pg/m ³		
		DL-PCBs		
		- 3,3',4,4'-TeCB (#77)		
		- 3,4,4',5-TeCB (#81)		
		- 3,3',4,4',5-PeCB (#126)		
		- 3,3',4,4',5,5'-HxCB(#169)		
		0.05 pg/m ³ to 20 pg/m ³		

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
6	Ambient air	DL-PCBs	Manual for Examining Dioxin in Ambient	
(cont.)		- 2,3,3',4,4'-PeCB (#105)	air 2008. Office of Dioxin Control Water & Air	
		- 2,3,4,4',5-PeCB (#114)	Quality Management Division Environmental	
		- 2,3',4,4',5-PeCB (#118)	Management Bureau Ministry of the	
		- 2',3,4,4',5-PeCB (#123)	Environment, Japan	
		- 2,3,3',4,4',5-HxCB (#156)	(Include sampling)	
		- 2,3,3',4,4',5'-HxCB (#157)		
		- 2,3',4,4',5,5'-HxCB (#167)		
		- 2,3,3',4,4',5,5'-HpCB (#189)		
		0.05 pg/m ³ to 20 pg/m ³		
		- Total (PCDDs + PCDFs + DL-PCBs)		
		0 pg-TEQ/m ³ to 158 pg-TEQ/m ³		

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Laborator	y Status 🛛 : 🗹 Peri	manent 🛛 Site 🗖 Tempor	rary 🔲 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	Ambient air	PCDDs	In - house method : WI-9-1-D1001
(cont.)		- 2,3,7,8-TCDD	based on Manual for Examining Dioxin in
		- 1,2,3,7,8-PeCDD	Ambient air 2008. Office of Dioxin Control
		0.02 ng/batch to 40 ng/batch	Water & Air Quality Management Division
			Environmental Management Bureau Ministry
		- 1,2,3,4,7,8-HxCDD	of the Environment, Japan (Exclude sampling)
		- 1,2,3,6,7,8-HxCDD	
		- 1,2,3,7,8,9-HxCDD	
		- 1,2,3,4,6,7,8-HpCDD	
		0.04 ng/batch to 80 ng/batch	
		- OCDD	
		0.1 ng/batch to 200 ng/batch	
		PCDFs	
		- 2,3,7,8-TCDF	
		- 1,2,3,7,8-PeCDF	
		- 2,3,4,7,8-PeCDF	
		0.02 ng/batch to 40 ng/batch	

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Laboratory Name : Environmental Research and Training Center,

Department of Environmental Quality Promotion

Address : 34 Moo 3, Technopolis, Tambon Klong 5, Amphoe Klong Luang,

Changwat Pathumthani 12120

Accreditation Number : Testing - 0019

Laborator	Laboratory Status : 🗹 Permanent 🗆 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
6	Ambient air	PCDFs	In - house method : WI-9-1-D1001	
(cont.)		- 1,2,3,4,7,8-HxCDF	based on Manual for Examining Dioxin in	
		- 1,2,3,6,7,8-HxCDF	Ambient air 2008. Office of Dioxin Control	
		- 2,3,4,6,7,8-HxCDF	Water & Air Quality Management Division	
		- 1,2,3,7,8,9-HpCDF	Environmental Management Bureau Ministry	
		- 1,2,3,4,6,7,8-HpCDF	of the Environment, Japan (Exclude sampling)	
		- 1,2,3,4,7,8,9-HpCDF		
		0.04 ng/batch to 80 ng/batch		
		- OCDF		
		0.1 ng/batch to 200 ng/batch		
		DL-PCBs		
		- 3,3',4,4'-TeCB (#77)		
		- 3,4,4',5-TeCB (#81)		
		- 3,3',4,4',5-PeCB (#126)		
		- 3,3',4,4',5,5'-HxCB(#169)		
		0.05 ng/batch to 20 ng/batch		

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Department of Environmental Quality Promotion

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
6	Ambient air	DL-PCBs	In - house method : WI-9-1-D1001	
(cont.)		- 2,3,3',4,4'-PeCB (#105)	based on Manual for Examining Dioxin in	
		- 2,3,4,4',5-PeCB (#114)	Ambient air 2008. Office of Dioxin Control	
		- 2,3',4,4',5-PeCB (#118)	Water & Air Quality Management Division	
		- 2',3,4,4',5-PeCB (#123)	Environmental Management Bureau Ministry	
		- 2,3,3',4,4',5-HxCB (#156)	of the Environment, Japan (Exclude sampling)	
		- 2,3,3',4,4',5'-HxCB (#157)		
		- 2,3',4,4',5,5'-HxCB (#167)		
		- 2,3,3',4,4',5,5'-HpCB (#189)		
		0.05 ng/batch to 20 ng/batch		
		- Total (PCDDs + PCDFs + DL-PCBs)		
		0 ng-TEQ/batch to		
		158 ng-TEQ/batch		

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Changwat Pathumthani 12120

Accreditation Number : Testing - 0019

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
6	Ambient air	Volatile Organic Compounds	United States Environmental Protection	
(cont.)		- Vinyl chloride	Agency, 1999, Compendium Method TO-15,	
		1.3 μg/m ³ to 64 μg/m ³	2 nd ed. (Include sampling)	
		- 1,3-Butadiene		
		1.1 μg/m ³ to 55 μg/m ³		
		- Ethyl Chloride		
		1.3 μg/m ³ to 66 μg/m ³		
		- Dichloromethane		
		1.7 μg/m ³ to 87 μg/m ³		
		- Chloroform		
		2.4 μg/m ³ to 122 μg/m ³		
		- Benzene		
		1.6 μg/m ³ to 80 μg/m ³		
		- 1,2-Dichloroethane		
		2.0 μg/m ³ to 101 μg/m ³		
		- Trichloroethylene		
		2.7 μg/m ³ to 134 μg/m ³		

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Changwat Pathumthani 12120

Accreditation Number : Testing - 0019

Laboratory Status : 🗹 Permanent 🗆 Site 🛛 Temporary 🔲 Mobile			
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	Ambient air	Volatile Organic Compounds	United States Environmental Protection
(cont.)		- 1,2-Dichloropropane	Agency, 1999, Compendium Method TO-15,
		2.3 μg/m ³ to 116 μg/m ³	2 nd ed. (Include sampling)
		- Toluene	
		1.9 μg/m ³ to 94 μg/m ³	
		- Tetrachloroethylene	
		3.4 μg/m ³ to 170 μg/m ³	
		- Ethylbenzene	
		2.2 µg/m ³ to 108 µg/m ³	
		- m +p -Xylene	
		2.2 μg/m ³ to 109 μg/m ³	
		- o-Xylene	
		2.2 μg/m ³ to 109 μg/m ³	
		- Bromoform	
		5.2 μg/m ³ to 258 μg/m ³	
		- Chloromethane	
		1.0 μg/m ³ to 52 μg/m ³	
		- Bromomethane	
		1.9 μg/m ³ to 97 μg/m ³	

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Laboratory Status : 🗹 Permanent 🗆 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	Ambient air	Volatile Organic Compounds	United States Environmental Protection
(cont.)		- Hexane	Agency, 1999, Compendium Method TO-15,
		1.8 μg/m ³ to 88 μg/m ³	2 nd ed. (Include sampling)
		- Carbon tetrachloride	
		3.1 μg/m ³ to 157 μg/m ³	
		- 1,2- Dibromomethane	
		3.8 μg/m ³ to 192 μg/m ³	
		- Pentane	
		1.5 μg/m ³ to 74 μg/m ³	
		- 2-Propenal	
		1.1 μg/m ³ to 57 μg/m ³	
		- Carbon disulfide	
		1.6 μg/m ³ to 78 μg/m ³	
		- Acetone	
		1.2 μg/m ³ to 59 μg/m ³	
		- 2-Butanone	
		1.5 μg/m ³ to 74 μg/m ³	

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Laboratory Status : 🗹 Permanent 🗆 Site 🔹 Temporary 🗖 Mobile					
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
7	- Soil	PCDDs	In - house method : WI-9-1-D1002		
	- Sediment	- 2,3,7,8-TCDD	based on United States Environmental		
		- 1,2,3,7,8-PeCDD	Protection Agency, 2010, EPA, Method 1613,		
		1 pg/g to 500 pg/g	Revision B, October 1994 and Method		
			1668C, April 2010		
		- 1,2,3,4,7,8-HxCDD			
		- 1,2,3,6,7,8-HxCDD			
		- 1,2,3,7,8,9-HxCDD			
		- 1,2,3,4,6,7,8-HpCDD			
		2 pg/g to 2 500 pg/g			
		- OCDD			
		5 pg/g to 2 500 pg/g			

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Accreditation Number : Testing - 0019

Laboratory Status : Permanent Site Temporary Mobile					
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
7	- Soil	PCDFs	In - house method : WI-9-1-D1002		
(cont.)	- Sediment	- 2,3,7,8-TCDF	based on United States Environmental		
		- 1,2,3,7,8-PeCDF	Protection Agency, 2010, EPA, Method 1613,		
		- 2,3,4,7,8-PeCDF	Revision B, October 1994 and Method		
		1 pg/g to 500 pg/g	1668C, April 2010		
		PCDFs			
		- 1,2,3,4,7,8-HxCDF			
		- 1,2,3,6,7,8-HxCDF			
		- 1,2,3,7,8,9-HxCDF			
		- 2,3,4,6,7,8-HxCDF			
		- 1,2,3,4,6,7,8-HpCDF			
		- 1,2,3,4,7,8,9-HpCDF			
		2 pg/g to 1 000 pg/g			
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		- OCDF			
		5 pg/g to 2 500 pg/g			

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Accreditation Number : Testing - 0019

Laboratory Status : 🗹 Permanent 🗆 Site 🗖 Temporary 🗖 Mobile			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	- Soil	DL-PCBs	In - house method : WI-9-1-D1002
(cont.)	- Sediment	- 3,3',4,4'-TeCB (#77)	based on United States Environmental
		- 3,4,4',5-TeCB (#81)	Protection Agency, 2010, EPA, Method 1613,
		- 3,3',4,4',5-PeCB (#126)	Revision B, October 1994 and Method
		- 3,3',4,4',5,5'-HxCB(#169)	1668C, April 2010
		- 2,3,3',4,4'-PeCB (#105)	
		- 2,3,4,4',5-PeCB (#114)	
		- 2,3',4,4'5-PeCB (#118)	
		- 2',3,4,4'5-PeCB (#123)	
		- 2,3,3',4,4',5-HxCB (#156)	
		- 2,3,3',4,4'5'-HxCB (#157)	
		- 2,3',4,4'5,5'-HxCB (#167)	
		- 2,3,3',4,4',5,5'-HpCB (#189)	
		2.5 pg/g to 1 000 pg/g	
		- Total (PCDDs + PCDFs + DL-PCBs)	
		0 pg-TEQ/g to 2 077 pg-TEQ/g	

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Laboratory Status : 🗹 Permanent 🗹 Site 🛛 Temporary 🗖 Mobile				
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
8	Environmental noise	- Sound level Equivalent sound level	In - house method : WI-9-1-A6001 based on ISO 1996-2 : 2017	
		L _{eq,T} 30 dB(A) to 125 dB(A) Maximum sound level L _{max} 30 dB(A) to 125 dB(A)		
		- Noise level	In - house method : WI-9-1-A6002	
		Background noise level	based on Notification of the Pollution Control	
		L ₉₀ 30 dB(A) to 120 dB(A)	Board, Method of measuring the background	
		Non nuisance period noise level	noise level, non nuisance period noise level,	
		L _{eq,T} 30 dB(A) to 120 dB(A)	the measuring and calculation of noise level	
		nuisance period noise level	from nuisance period, the calculation of	
		L _{eq,T} 30 dB(A) to 120 dB(A)	nuisance level and record form of nuisance	
		Noise level	noise measurement, date August 31, 2007	
		0.1 dB (A) to 40 dB (A)		

Initial Issued Date 25th September 2007

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Accreditation Number : Testing - 0019

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ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
9	Emission from	PCDFs	In - house method: WI-9-1-D1004	
(cont.)	stationary source	- 2,3,7,8-TCDF	based on JIS K 0311 : 2005 and United States	
		- 1,2,3,7,8-PeCDF	Environmental Protection Agency, 2017,	
		- 2,3,4,7,8-PeCDF	EPA, Method 23	
		0.1 ng/batch to 200 ng/batch		
		- 1,2,3,4,7,8-HxCDF		
		- 1,2,3,6,7,8-HxCDF		
		- 2,3,4,6,7,8-HxCDF		
		- 1,2,3,7,8,9-HxCDF		
		- 1,2,3,4,6,7,8-HpCDF		
		- 1,2,3,4,7,8,9-HpCDF		
		0.2 ng/batch to 400 ng/batch		
		- OCDF		
		0.5 ng/batch to 1 000 ng/batch		

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ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
9	Emission from	DL-PCBs	In - house method: WI-9-1-D1004		
(cont.)	stationary source	- 3,3',4,4'-TeCB (#77)	based on JIS K 0311 : 2005 and United States		
		- 3,4,4',5-TeCB (#81)	Environmental Protection Agency, 2017,		
		- 3,3',4,4',5-PeCB (#126)	EPA, Method 23		
		- 3,3',4,4',5,5'-HxCB(#169)			
		- 2,3,3',4,4'-PeCB (#105)			
		- 2,3,4,4',5-PeCB (#114)			
		- 2,3',4,4'5-PeCB (#118)			
		- 2',3,4,4'5-PeCB (#123)			
		- 2,3,3',4,4',5-HxCB (#156)			
		- 2,3,3',4,4'5'-HxCB (#157)			
		- 2,3',4,4'5,5'-HxCB (#167)			
		- 2,3,3',4,4',5,5'-HpCB (#189)			
		0.25 ng/batch to 100 ng/batch			

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Laboratory Status : 🗹 Permanent 🗆 Site 🔹 Temporary 💭 Mobile			
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Emission from	- Total (PCDDs + PCDFs + DL-PCBs)	In - house method: WI-9-1-D1004
(cont.)	stationary source	0 ng-TEQ/batch to	based on JIS K 0311 : 2005 and United States
		792 ng-TEQ/batch	Environmental Protection Agency, 2017,
			EPA, Method 23

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