Regulatory items for each site data (FY2020)

*Items that are not subject to regulations or voluntary standards are marked "-".

Kokura No.1 Plant, TOTO LTD.

<atmosphere related=""></atmosphere>							Measur	ing date : Febr	uary 2-3, 2021
	NOx (ppm)			SOx (m³N/h)			Dust (g/m ³ N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	200	135	30	21	—	0.03	0.2	0.04	0.004~0.028
Boiler	180	100	25~37	—	—	—	0.2	0.04	<0.004
Cogeneration generator	950	900	880	—	—	—	0.08	0.07	0.020

<water quality="" related=""> *Public sewage Measuring date : July 29, 2</water>							
		Regulatory	Own	Measured			
Item	Unit	value	standard	value			
PH (hydrogen-ion concentration)	—	5.0~9.0	5.8~8.6	8.0			
Biochemical Oxygen Demand (BOD)	mg/l	600	300	32			
Chemical Oxygen Demand (COD)	mg/l	600	300	3.2			
Suspended Solids (SS)	mg/l	600	30	11			
n-hexane extract (paraffinum liquidum	mg/l	5	—	<0.5			
Copper	mg/l	3	—	<0.1			
Zinc	mg/l	2	—	0.10			
Total chromium	mg/l	2	_	<0.1			
Total nitrogen	mg/l	—	—	—			
Total phosphorous	mg/l	1	—	<0.1			
Cadmium and its compounds	mg/l	0.03	—	< 0.003			
Cyanogen compound	mg/l	1	—	<0.1			
Lead and its compound	mg/l	0.1	_	< 0.01			
Hexavalent chromium compound	mg/l	0.5	—	< 0.05			

<noise></noise>	Measuring date : March 11,17, 2021									
		Regulatory	Measured							
	Unit	value	standard	value						
morning	dB (A)	65	—	49~56						
afternoon	dB (A)	65	—	48~57						
evening	dB (A)	65	—	43~54						
night	dB (A)	55	—	40~52						

<vibratio< th=""><th>n></th><th colspan="5">Measuring date : March 11, 2021</th></vibratio<>	n>	Measuring date : March 11, 2021				
		Regulatory	Measured			
	Unit	value	standard	value		
afternoon	dB	65	_	23~52		
night	dB	60	—	—		

<Odor> *Not applicable

Shiga Plant, TOTO LTD.

<atmosphere related=""></atmosphere>							Measuri	ng date : Febru	ary 4-17,2021	
	NOx (ppm)				SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured	
Facility type	value	standard	value	value	standard	value	value	standard	value	
Firing furnace	180	135	26~37	8.76	6.57	0.02~1.34	0.2	0.15	0.009~0.019	
Boiler	150	112	11~60	—	—	—	0.2	0.15	$0.005 \sim 0.008$	
Cogeneration generator	600	450	187	_	_	_	0.05	0.04	< 0.005	

<water quality="" related=""></water>	Making date :	April 21, 2021		
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.3~8.2	7.5
Biochemical Oxygen Demand (BOD)	mg/l	20	15	2.2
Chemical Oxygen Demand (COD)	mg/l	20	15	3.8
Suspended Solids (SS)	mg/l	20	15	4.8
n-hexane extract (paraffinum liquidum	mg/l	5	3.7	<0.5
Copper	mg/l	1	0.7	<0.05
Zinc	mg/l	1	0.75	0.18
Total chromium	mg/l	0.1	0.07	< 0.01
Total nitrogen	mg/l	12.0	9	0.75
Total phosphorous	mg/l	1.2	0.9	<0.05
Cadmium and its compounds	mg/l	0.03	0.023	< 0.001
Cyanogen compound	mg/l	0.1	0.08	< 0.01
Lead and its compound	mg/l	0.1	0.08	< 0.01
Hexavalent chromium compound	mg/l	0.05	0.038	< 0.01

<noise></noise>	Measuring date : October 27, 2020						
		Regulatory	Measured				
	Unit	value	standard	value			
morning	dB (A)	65	63	47~51			
afternoon	dB (A)	70	67	45~66			
evening	dB (A)	70	67	42~57			
night	dB (A)	60	57	44~49			

<vibration></vibration>	Measuring date : October 27, 2020
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		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	70	65	<30
night	dB	65	60	<30



*Not applicable

Kokura No.2 Plant, TOTO LTD.

-Δtm	nocnh	nere	related >	

<atmosphere related=""></atmosphere>								Making dat	e : June , 2021
	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Metal melting furnace	_	—	—	—	—	—	0.1	0.05	<0.002
Boiler	150	60	17~31	1.75		_	0.05	0.03	—
Cogeneration generator	950	950	815~860	1.75	0.342	_	0.08	0.08	$0.014{\sim}0.019$

<water quality="" related=""> Making date</water>						
		Regulatory	Own	Measured		
Item	Unit	value	standard	value		
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.09~7.90		
Biochemical Oxygen Demand (BOD)	mg/l	20	15	1.02		
Chemical Oxygen Demand (COD)	mg/l	20	15	2.61		
Suspended Solids (SS)	mg/l	60	50	1.11		
n-hexane extract (paraffinum liquidum)	mg/l	5	_	0.28		
Copper	mg/l	3	—	0.02		
Zinc	mg/l	5	_	0.05		
Total chromium	mg/l	2	—	0.02		
Total nitrogen	mg/l	120	60	0.667		
Total phosphorous	mg/l	16	8	0.016		
Cadmium and its compounds	mg/l	0.03	—	—		
Cyanogen compound	mg/l	1	—	—		
Lead and its compound	mg/l	0.1	—	0.0021		
Hexavalent chromium compound	mg/l	0.5	_	Below minimum set amount		

Shiga No.2 Plant, TOTO LTD.

<Atmosphere related>

	NOx (ppm)		SOx (m³N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Cold / hot water unit	260	195	59	17.5	13.20	< 0.003	0.3	0.230	< 0.011

<water quality="" related=""></water>	*Not applicable
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		Regulatory	Own	
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	—	—	—	
Biochemical Oxygen Demand (BOD)	mg/l	—	—	
Chemical Oxygen Demand (COD)	mg/l	—	—	
Suspended Solids (SS)	mg/l	—	—	
n-hexane extract (paraffinum liquidum)	mg/l	_	—	
Copper	mg/l	—	—	
Zinc	mg/l	—	—	
Total chromium	mg/l	-	_	
Total nitrogen	mg/l	-	_	
Total phosphorous	mg/l	_	—	
Cadmium and its compounds	mg/l	—	—	
Cyanogen compound	mg/l	—	—	
Lead and its compound	mg/l	_	_	
Hexavalent chromium compound	mg/l	_	_	

<noise></noise>		Measuring da	Measuring date : November 10, 2020				
		Regulatory	Own	Measured			
	Unit	value	standard	value			
morning	dB (A)	65	—	—			
afternoon	dB (A)	65	—	42~59			
evening	dB (A)	65	—	43~61			
night	dB (A)	55	—	43~52			

<vibratio< th=""><th>n></th><th colspan="3">Measuring date : November 10, 2020</th></vibratio<>	n>	Measuring date : November 10, 2020		
		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	65	—	20~57
night	dB	60	_	_

<Odor>

*Not applicable

Measuring date : February 4-17, 2021

Measured	
value	
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<noise></noise>		Measuring date : October 27, 2020				
		Regulatory	Own	Measured		
	Unit	value	standard	value		
morning	dB (A)	65	63	43~53		
afternoon	dB (A)	70	67	46~62		
evening	dB (A)	70	67	41~54		
night	dB (A)	60	57	39~41		

<Vibration> Measuring date : October 27, 2020 Regulatory Own Measured Unit value standard value 65 <30 afternoon dB 70 dB 65 60 <30 night

<Odor>

Chigasaki Plant, TOTO LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m³N/h)			Dust (g/m ³ N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	—	—	—	—	—	—	—	—	—

<water *<="" *not="" application="" quality="" relate="" th=""><th>able</th><th>Ma</th><th>king date : Dec</th><th>ember 2, 2020</th></water>	able	Ma	king date : Dec	ember 2, 2020
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	5~9	5.3~8.8	7.3
Biochemical Oxygen Demand (BOD)	mg/l	600	480	5.0
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	600	480	<1
n-hexane extract (paraffinum liquidum	mg/l	30	21	<1
Copper	mg/l	1	0.8	< 0.01
Zinc	mg/l	1	0.8	0.07
Total chromium	mg/l	2	1.6	< 0.04
Total nitrogen	mg/l	125	93.8	0.7
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	0.03	0.024	< 0.03
Cyanogen compound	mg/l	1	0.75	< 0.01
Lead and its compound	mg/l	0.1	0.08	0.005
Hexavalent chromium compound	mg/l	0.5	0.38	< 0.04

Measuring date : July 13, 2020	
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<noise></noise>		Measuring date : July 13, 2020				
	Regulatory Own			Measured		
	Unit	value	standard	value		
morning	dB (A)	62.5~75.0	—	44.1~55.7		
afternoon	dB (A)	65.0~75.0	—	43.4~55.2		
evening	dB (A)	62.5~75.0	—	43.5~60.2		
night	dB (A)	55.0~65.0		37.7~44.1		

<vibratio< th=""><th>n></th><th colspan="4">Measuring date : July 13, 2020</th></vibratio<>	n>	Measuring date : July 13, 2020			
		Regulatory	Own	Measured	
	Unit	value	standard	value	
afternoon	dB	65~70	—	<30	
night	dB	60~65	—	<30	

<Odor>

*Not applicable

Aichi Plant, TOTO SANITECHNO LTD.

<atmosphere related=""> Making date : November 4, 202</atmosphere>									ember 4, 2020
	NOx (ppm)			SOx (m³N/h)			Dust (g/m ³ N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	180	108	68	0.68	0.272	0.06	0.25	0.1	0.045
Boiler	150	90	25~87	0.045	0.027	0.02	0.1	0.04	0.005

<water quality="" related=""></water>			Making dat	te : June, 2021
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	8.6	6.8	7.0~8.3
Biochemical Oxygen Demand (BOD)	mg/l	25	10	2.2
Chemical Oxygen Demand (COD)	mg/l	160	64	2.8~9.1
Suspended Solids (SS)	mg/l	150	60	1
n-hexane extract (paraffinum liquidum	mg/l	2	1.2	0.9
Copper	mg/l	3	1.2	0.01
Zinc	mg/l	2	1.2	1.7
Total chromium	mg/l	2	0.8	0.04
Total nitrogen	mg/l	120	48	0.8~1.5
Total phosphorous	mg/l	16	6.4	0.01~0.06
Cadmium and its compounds	mg/l	0.03	0.012	—
Cyanogen compound	mg/l	1	0.4	—
Lead and its compound	mg/l	0.1	0.04	—
Hexavalent chromium compound	mg/l	0.5	0.2	

<noise></noise>		Making date : November 19, 2020						
		Regulatory Own		Measured				
	Unit	value	standard	value				
morning	dB (A)	55	55	41~52				
afternoon	dB (A)	60	60	42~53				
evening	dB (A)	55	55	38~48				
night	dB (A)	50	50	34~46				

	· · · · · · · · · · · · · · · · · · ·					
		Regulatory	Own	Measured		
	Unit	value	standard	value		
afternoon	dB	65	52	31~38		
night	dB	60	48	30~38		

<Odor>

*Not applicable

Oita Plant, TOTO AQUATECHNO LTD.

<atmosphere related=""> Making date : March 18, 2</atmosphere>								larch 18, 2021	
	NOx (ppm)		SOx (m³N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Metal melting furnace	—	—	—	—	—	—	0.05	0.05	—
Boiler	37.5	37.5	25~28	2.34	0.28	0.0	0.05	0.05	—

<water quality="" related=""></water>			Making date : N	1arch 18, 2021
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	-	5.8~8.6	6.0~8.4	6.8~7.8
Biochemical Oxygen Demand (BOD)	mg/l	15	13.5	0.5~2.1
Chemical Oxygen Demand (COD)	mg/l	15	10	1.2~7.9
Suspended Solids (SS)	mg/l	15	10	0.1~1.5
n-hexane extract (paraffinum liquidum)	mg/l	2	1.5	0.4
Copper	mg/l	3	2	0.2~0.4
Zinc	mg/l	2	1.5	0.1~0.3
Total chromium	mg/l	2	0.3	0.2
Total nitrogen	mg/l	10	9	3.7~5.3
Total phosphorous	mg/l	3	2.5	0.3~0.9
Cadmium and its compounds	mg/l	0.1	—	—
Cyanogen compound	mg/l	1	—	—
Lead and its compound	mg/l	0.1	0.08	0.01~0.02
Hexavalent chromium compound	mg/l	Not detected	Not detected	Not detected

HQ / Nakatsu Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

					9	/ ==/==/ ====			
	NOx (ppm)		SOx (m³N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	180~200	75	7~29	17.5	1 (provisional	0.104~1.402	0.25	0.05	0.002~0.004
Boiler	150	75	22~38	—	_	—	0.1	0.01	<0.002
Cogeneration generator	950	800	—	17.5	1	—	0.1	0.05	—

<water quality="" related=""> Measuri</water>				4arch 3, 2021
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.5~8.2	7.01~7.55
Biochemical Oxygen Demand (BOD)	mg/l	160	16	1.5~4.3
Chemical Oxygen Demand (COD)	mg/l	160	10	0.89~2.56
Suspended Solids (SS)	mg/l	200	15	4.32~12.6
n-hexane extract (paraffinum liquidum)	mg/l	5	1.5	<1
Copper	mg/l	_	—	—
Zinc	mg/l	2	0.9	0.16~0.64
Total chromium	mg/l	_	—	—
Total nitrogen	mg/l	120	20	4.71~9.11
Total phosphorous	mg/l	16	1	0.01~0.07
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	_	—	—
Lead and its compound	mg/l	_	_	—
Hexavalent chromium compound	mg/l	_	_	—

<noise></noise>	Measuring date : February 22, 2021						
		Regulatory	Own	Measured			
	Unit	value	standard	value			
morning	dB (A)	65	60	46~47			
afternoon	dB (A)	70	60	48~55			
evening	dB (A)	65	60	44~52			
night	dB (A)	55	50	41~46			

<vibration></vibration>		Measuring date : June 12,15, 2020					
		Regulatory	Own	Measured			
	Unit	value	standard	value			
afternoon	dB	70	65	<45			
night	dB	65	60	<45			

<Odor>

*Not applicable

Measuring date : January 12,13, 2021

• • • •				2020
oise>	Measuring	date :	November6,	2020

<noise></noise>	Measuring date : November6, 2020						
		Measured					
	Unit	value	standard	value			
morning	dB (A)	70	63	54~63			
afternoon	dB (A)	70	67	57~66			
evening	dB (A)	70	63	55~62			
night	dB (A)	65	57	52~57			

<Vibration> Measuring date : November6, 2020

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	70	63	27.5~39.1
night	dB	65	58	26.5~38.4

<Odor>

Toki Plant, TOTO WASHLET TECHNO LTD.

<Atmosphere related>

	NOx (ppm)		SOx (m [°] N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	—	_	-	—	-	—	-	_	—

<water quality="" related=""></water>	ng date : Septe	mber 18, 2020		
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.4
Biochemical Oxygen Demand (BOD)	mg/l	160	—	22
Chemical Oxygen Demand (COD)	mg/l	160	—	39
Suspended Solids (SS)	mg/l	200	—	5
n-hexane extract (paraffinum liquidum	mg/l	—	—	—
Copper	mg/l	3	—	—
Zinc	mg/l	2	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	120.0	—	69
Total phosphorous	mg/l	16	—	6.3
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	0.1	—	—
Hexavalent chromium compound	mg/l	—	_	_

<noise> Measuring date : February 9,10, 2021</noise>		
	<noise></noise>	Measuring date : February 9,10, 2021

		Regulatory	Own	Measured	
	Unit	value	standard	value	
morning	dB (A)	60	—	38~50	
afternoon	dB (A)	65	—	48~58	
evening	dB (A)	60	—	31~49	
night	dB (A)	50	—	30~50	

<vibration></vibration>	Measuring date : February 9,10, 2021
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		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	70	—	<30
night	dB	65	—	<30

<Odor>

*Not applicable

HQ / Sakura Plant, TOTO Bath Create LTD.

	<atmos< th=""><th>phere</th><th>related></th></atmos<>	phere	related>
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<atmosphere related=""></atmosphere>							Measu	ring date : Feb	ruary 22, 2021
		NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)	
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Boiler	150	79	12~26	0.61	0.01	0.002	0.1	0.006	0.0009
Cold / hot water genera	150	41	34	—	—	—	0.1	0.006	0.0010

<water quality="" related=""></water>	Measu	ring date : Febr	ruary 18, 2021	
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	6.5~8.5	7.0~8.2	8.0
Biochemical Oxygen Demand (BOD)	mg/l	5	3.3	1
Chemical Oxygen Demand (COD)	mg/l	5	3	1
Suspended Solids (SS)	mg/l	10	4	1
n-hexane extract (paraffinum liquidum	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	_

<noise></noise>	Measuring date : November 5,6, 2020							
		Regulatory	Regulatory Own N					
	Unit	value	standard	value				
morning	dB (A)	60	_	41.1~53.5				
afternoon	dB (A)	65	—	42.6~58.6				
evening	dB (A)	60	—	39.7~53.2				
night	dB (A)	55	_	33.7~46.9				

<vibration< th=""><th>r 21, 2020</th></vibration<>	r 21, 2020			
		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	60	—	29.4~40.2
night	dB	—	—	—

<Odor>

*Not applicable

Ako Plant, TOTO Bath Create LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related > *Not applicable

		Regulatory	Own	٩ ا
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	—	—	—	
Biochemical Oxygen Demand (BOD)	mg/l	—	—	
Chemical Oxygen Demand (COD)	mg/l	—	—	
Suspended Solids (SS)	mg/l	—	—	
n-hexane extract (paraffinum liquidum)	mg/l	—	—	
Copper	mg/l	—	—	
Zinc	mg/l	—	—	
Total chromium	mg/l	—	—	
Total nitrogen	mg/l	—	—	
Total phosphorous	mg/l	—	—	
Cadmium and its compounds	mg/l	—	—	
Cyanogen compound	mg/l	—	—	
Lead and its compound	mg/l	—	—	
Hexavalent chromium compound	mg/l	—	—	

HQ / Mobara Plant, TOTO High Living LTD.

<Atmosphere related>

								-	, , ,
	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Boiler	150	100	26~34	—	_	—	0.1	0.06	0.005

<water quality="" related=""></water>		Measuring date : January 22, 2021			<noise></noise>		Measuring (date : Novembe	r 9, 2020
		Regulatory	Own	Measured			Regulatory	Own	Measured
Item	Unit	value	standard	value		Unit	value	standard	value
PH (hydrogen-ion concentration)	—	5.8~8.6	6~8	7.3	morning	dB (A)	55	—	37.2~52.5
Biochemical Oxygen Demand (BOD)	mg/l	20	18	1.0	afternoon	dB (A)	60	—	40.9~49.0
Chemical Oxygen Demand (COD)	mg/l	20	18	6.6	evening	dB (A)	55	—	42.5~49.1
Suspended Solids (SS)	mg/l	40	36	1.8	night	dB (A)	50	—	—
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—					
Copper	mg/l	1	0.6	0.02	<vibration< td=""><td>ו></td><td>Measuring (</td><td>date : Novembe</td><td>r 4, 2020</td></vibration<>	ו>	Measuring (date : Novembe	r 4, 2020
Zinc	mg/l	1	0.8	0.02			Regulatory	Own	Measured
Total chromium	mg/l	0.5	0.3	0.02		Unit	value	standard	value
Total nitrogen	mg/l	—	_	—	afternoon	dB	60	—	25~39
Total phosphorous	mg/l		—	—	night	dB	55	—	_
Cadmium and its compounds	mg/l	0.01	0.006	0.001					
Cyanogen compound	mg/l	—	—	—	<odor></odor>				
Lead and its compound	mg/l	0.1	0.07	0.01	*Not ap	oplicable			
Hexavalent chromium compound	mg/l	0.05	0.03	0.005					

Measured
value
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<noise></noise>	Measuring date : October 22, 2020								
		Regulatory	Regulatory Own						
	Unit	value	standard	value					
morning	dB (A)	70	—	—					
afternoon	dB (A)	70	—	51.9~59.3					
evening	dB (A)	70	—	_					
night	dB (A)	70	—						

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	_	_
night	dB	—	_	_

<Odor>

*Not applicable

Measuring date : January 20,21, 2021

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	55	—	37.2~52.5
afternoon	dB (A)	60	—	40.9~49.0
evening	dB (A)	55	—	42.5~49.1
night	dB (A)	50	_	—

HQ / Nakatsu Plant, TOTO Fine Ceramics LTD.

<Atmosphere related>

<atmosphere related=""></atmosphere>							Me	easuring date :	March 5, 2021
		NOx (ppm)		SOx (m ³ N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	180	162	4~75	—	—	—	0.25	0.10	0.002
Boiler	150	69	34	—	—	—	0.1	0.05	0.002
Cogeneration generator	950	855	_	17.5	—	0.21~0.23	0.10	0.090	—

<Water quality related >

Measuring date : March, 2021 (BOD,Total nitrogen,Total phosphorous ; January)

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.5~8.2	7.3
Biochemical Oxygen Demand (BOD)	mg/l	—	30	4.3
Chemical Oxygen Demand (COD)	mg/l	8	6.5	3.1
Suspended Solids (SS)	mg/l	13	10	3.6
n-hexane extract (paraffinum liquidum	mg/l	—	1.6	1.0
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	17	7.8
Total phosphorous	mg/l	—	2	0.06
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—		—
Hexavalent chromium compound	mg/l			

<Noise> Measuring date:November12, 2020

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	65	65	51~56
afternoon	dB (A)	70	70	49~64
evening	dB (A)	65	65	47~53
night	dB (A)	60	60	49~55

<Vibration> Measuring date:November12, 2020

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	65	65	24~37
night	dB	60	60	17~25

<Odor>

*Not applicable

HQ / Buzen Plant, TOTO Platechno LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Boiler	180	135	36~50	17.5	13.125	<0.0085	0.15	0.1125	<0.003

<Water quality related > *Not applicable

		Regulatory	Own	N
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	-	5.8~8.6	6.1~8.2	
Biochemical Oxygen Demand (BOD)	mg/l	60	45	
Chemical Oxygen Demand (COD)	mg/l	10	10	
Suspended Solids (SS)	mg/l	10	7.5	
n-hexane extract (paraffinum liquidum)	mg/l	5	4	
Copper	mg/l	3	2.3	
Zinc	mg/l	2	1.5	
Total chromium	mg/l	2	1.5	
Total nitrogen	mg/l	60	45	
Total phosphorous	mg/l	8	6	
Cadmium and its compounds	mg/l	0.03	0.0	
Cyanogen compound	mg/l	1	0.8	
Lead and its compound	mg/l	0.1	0.1	
Hexavalent chromium compound	mg/l	0.5	0.4	

Katsuura Plant, TOTO Platechno LTD.

<atmosphere related=""></atmosphere>							Me	asuring date : A	August 8, 2020
		NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)	
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Boiler	180	135	56	0.63	0.4725	<0.00078	0.15	0.1125	0.0040

<water quality="" related=""></water>		Measuring date : March 11, 20				
		Regulatory	Own	Measured		
Item	Unit	value	standard	value		
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.8		
Biochemical Oxygen Demand (BOD)	mg/l	50	37.5	23		
Chemical Oxygen Demand (COD)	mg/l	50	37.5	17		
Suspended Solids (SS)	mg/l	110	82.5	7		
n-hexane extract (paraffinum liquidum	mg/l	5	3.8	<1		
Copper	mg/l	3	2.3	<0.02		
Zinc	mg/l	5	3.8	< 0.05		
Total chromium	mg/l	2	1.5	<0.02		
Total nitrogen	mg/l	120	90	1.9		
Total phosphorous	mg/l	16	12	<0.02		
Cadmium and its compounds	mg/l	0.03	0.0075	< 0.005		
Cyanogen compound	mg/l	Not detected	Not detected	Not detecte		
Lead and its compound	mg/l	0.01	0.0075	<0.01		
Hexavalent chromium compound	mg/l	0.05	0.0375	< 0.05		

<noise></noise>		Measuring date : March 26, 30, 2021					
		Regulatory	Own	Measured			
	Unit	value	standard	value			
morning	dB (A)	55	—	48.6~53.7			
afternoon	dB (A)	60	—	47.9~59.0			
evening	dB (A)	55	—	38.9~39.9			
night	dB (A)	50	—	37.2~41.1			

<vibratio< th=""><th>n></th><th colspan="3">Measuring date : March 26, 30, 2021</th></vibratio<>	n>	Measuring date : March 26, 30, 2021		
		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	60	—	17.3~27.4
night	dB	55	—	15.0~18.0

Measuring date : March 10, 2021					
Linit	Regulatory	Own	Measured		
Unic	value	standard	value		
ppm	10	—	Not detected		
ppm	0.4	—	Not detected		
ppm	1	—	Not detected		
	Unit ppm ppm ppm	Measurin Unit Regulatory value ppm 10 ppm 0.4 ppm 1	Measuring date : March Unit Regulatory value Own ppm 10 — ppm 0.4 — ppm 1 —		

Kanda Plant, TOTO Platechno LTD.

<Atmosphere related>

	NOx (ppm)			NOx (ppm) SOx (m ³ N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	—	—	_	_	—	_	—	—	—

<water quality="" related=""> Measuring date : April</water>					
		Regulatory	Own	Measured	
Item	Unit	value	standard	value	
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.7~7.9	
Biochemical Oxygen Demand (BOD)	mg/l	160	—	—	
Chemical Oxygen Demand (COD)	mg/l	160	50	1.5~3.4	
Suspended Solids (SS)	mg/l	200	70	0.6	
n-hexane extract (paraffinum liquidum)	mg/l	5	2	<0.5	
Copper	mg/l	3	—	—	
Zinc	mg/l	2	_	_	
Total chromium	mg/l	2	—	—	
Total nitrogen	mg/l	120	120	0.8~2.1	
Total phosphorous	mg/l	16	16	<0.1	
Cadmium and its compounds	mg/l	0.03	—	—	
Cyanogen compound	mg/l	1	—	—	
Lead and its compound	mg/l	0.1	—	—	
Hexavalent chromium compound	mg/l	0.5	—	_	

Measuring date : March 16, 2021

ND=Below minimum set amount

Measured
value
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<noise></noise>		Measuring date : June 9, 2020				
		Regulatory	Regulatory Own			
	Unit	value	standard	value		
morning	dB (A)	70	70	—		
afternoon	dB (A)	70	70	47~67		
evening	dB (A)	70	70	—		
night	dB (A)	65	65	—		

<vibratio< th=""><th>n></th><th colspan="3">Measuring date : June 9, 2020</th></vibratio<>	n>	Measuring date : June 9, 2020		
		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	65	65	32~42
night	dB	60	60	_

<odor></odor>		Measuring date : June 9, 2020				
Regulated	Unit	Regulatory	Own	Measured		
substances	Offic	value	standard	value		
Styrene	ppm	0.4	_	<0.04		
Toluene	ppm	10	_	<1		
Xylene	ppm	1	_	<0.1		
Methanethiol	ppm	0.002	_	—		
Hydrogen sulfide	ppm	0.02	—	—		
Methyl dioxide	ppm	0.009	_			

<noise></noise>		Measuring date : January, 2021				
		Regulatory	Regulatory Own			
	Unit	value	standard	value		
morning	dB (A)	55	_	52~55		
afternoon	dB (A)	55	—	47~55		
evening	dB (A)	55	—	53~55		
night	dB (A)	50	_	48~50		

<Vibration> *Not applicable

		Regulatory	Own	Measured	
	Unit	value	standard	value	
afternoon	dB	—	_	_	
night	dB	—	_	—	

<odor></odor>	or> Measuring date : February, 2021				
Regulated	Linit	Regulatory	Own	Measured	
substances	Onic	value	standard	value	
North 1F	nn				
Cleaning	PΡ	35	—	—	
room	m				
North 1F					
Rubber role	ppm	35	—	25	
machine					
East 3F					
Printing Room	ppm	33	—	19	
discharge					
Final					
discharge	ppm	28	—	4	
vent of plant					

Nara Plant, TOTO Platechno LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m²N/h)			Dust (g/m [°] N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related > *Not applicable

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum	mg/l	—	—	—
Copper	mg/l	—	_	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	_	—	—
Total nitrogen	mg/l	_	_	_
Total phosphorous	mg/l	—	_	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	_	—	_
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	65	—	44~57
afternoon	dB (A)	70	—	52~57
evening	dB (A)	65	—	47~58
night	dB (A)	55	—	44~53

<vibratio< th=""><th>n></th><th colspan="3">Measuring date : October 27, 2020</th></vibratio<>	n>	Measuring date : October 27, 2020		
		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	65	—	30~42
night	dB	60	_	30~36

<odor></odor>	Measuring date : October 27, 2020				
Regulated	Unit	Regulatory	Own	Measured	
substances		value	standard	value	
Styrene	ppm	0.8	—	<0.08	

TOTO USA., INC Morrow Plant

<Atmosphere related>

	NOx (ppm)				SOx (m³N/h)		Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	25	20	10	100	1.0	0.032	—	—	—

<water quality="" related=""></water>	ND=	D=Below minimum set amount				
		Regulatory	Own	Measured		
Item	Unit	value	standard	value		
PH (hydrogen-ion concentration)	—	$5 \sim 12.5$	-	9.6		
Biochemical Oxygen Demand (BOD)	mg/l	3,112	-	BRL		
Chemical Oxygen Demand (COD)	mg/l	250.0	-	23		
Suspended Solids (SS)	mg/l	5,644	_	7		
n-hexane extract (paraffinum liquidum)	mg/l	-	-	-		
Copper	mg/l	-	-	-		
Zinc	mg/l	5.36	-	0.047		
Total chromium	mg/l	-	-	-		
Total nitrogen	mg/l	228	_	BRL		
Total phosphorous	mg/l	38.6	-	1.360		
Cadmium and its compounds	mg/l	-	-	-		
Cyanogen compound	mg/l	-	-	-		
Lead and its compound	mg/l	_	_	_		
Hexavalent chromium compound	mg/l	-	-	-		

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	_
afternoon	dB (A)	90	—	55~69
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

		The second secon	-	
		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

HQ / Toki Plant, TOTO Materia LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m ³ N/h)		Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Hardening furnace	180	—	4.1	6.33	—	0.04	0.2	—	0.03
Continuous firing furnace	180	—	4.3	1.37	—	0.05	0.2	—	0.02

<water quality="" related=""></water>		M	aking date : Fel	oru
		Regulatory	Own	
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	-	5.8~8.6	—	
Biochemical Oxygen Demand (BOD)	mg/l	160	—	
Chemical Oxygen Demand (COD)	mg/l	160	—	
Suspended Solids (SS)	mg/l	200	—	
n-hexane extract (paraffinum liquidum)	mg/l	_	—	
Copper	mg/l	3	—	
Zinc	mg/l	2	—	
Total chromium	mg/l	—	—	
Total nitrogen	mg/l	120	—	
Total phosphorous	mg/l	16	—	
Cadmium and its compounds	mg/l	_	—	
Cyanogen compound	mg/l	_	—	
Lead and its compound	mg/l	0.1	—	
Hexavalent chromium compound	mg/l	_	—	

TOTO USA., INC Lakewood Plant

<Atmosphere related>

NOx (ppm)				SOx (m ³ N/h)		Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	25	20	5.45~5.49	100	1	0.02	—	_	—

<water quality="" related=""></water>	ND=Belo	ow minimum s	set amount	
		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	$5 \sim 12.5$	-	7.3
Biochemical Oxygen Demand (BOD)	mg/l	3,112	-	8
Chemical Oxygen Demand (COD)	mg/l	-	-	52.6
Suspended Solids (SS)	mg/l	5,644	-	-
n-hexane extract (paraffinum liquidum)	mg/l	-	-	-
Copper	mg/l	3.104	-	-
Zinc	mg/l	4.473	-	BRL
Total chromium	mg/l	2.25	-	-
Total nitrogen	mg/l	228	-	1
Total phosphorous	mg/l	10	-	0.140
Cadmium and its compounds	mg/l	0.335	-	-
Cyanogen compound	mg/l	-	-	-
Lead and its compound	mg/l	0.653	_	-
Hexavalent chromium compound	mg/l	-	-	-

Making date : February 25, 2021
Dust (g/m³N)

ruary 9, 2021	
Measured	
value	
7.3	
15.0	
13.0	
1.0	
_	
<0.01	
0.49	
_	
1.20	
0.010	
_	
_	
<0.01	
_	

<noise></noise>		Making date : December 15, 2020				
	Regulatory		Own	Measured		
	Unit	value	standard	value		
morning	dB (A)	60	—	—		
afternoon	dB (A)	65	—	53~61		
evening	dB (A)	60	—	—		
night	dB (A)	50	—	—		

<vibration></vibration>	Making c	ate : December	15, 2020

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	65	—	30~32
night	dB	60	_	

<Odor> *Not applicable

<	N	oi	S	2	>	

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	—	—	—
afternoon	dB (A)	90	—	55~69
evening	dB (A)	—	_	_
night	dB (A)	—	_	_

*Not applicable <Vibration>

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	_
night	dB	-	—	-

<Odor>

TOTO MEXICO, S.A. DE C.V.

<Atmosphere related>

	NOx (ppm)			NOx (ppm) SOx (m ³ N/h)				Dust (g/m ³ N)	
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	—	—	—	—	—	—	48.4~1084.	—	0.07~0.9

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	5~10	—	7.1
Biochemical Oxygen Demand (BOD)	mg/l	—	_	<4
Chemical Oxygen Demand (COD)	mg/l	—	—	<30
Suspended Solids (SS)	ml/l	1.0	—	0.01
n-hexane extract (paraffinum liquidum	mg/l	15	—	10.0
Copper	mg/l	4	—	0.04
Zinc	mg/l	10	_	0.38
Total chromium	mg/l	0.5	—	0.42
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	_	5.09
Cadmium and its compounds	mg/l	—	_	_
Cyanogen compound	mg/l	—	_	—
Lead and its compound	mg/l	—	_	_
Hexavalent chromium compound	mg/l	—	—	—

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	68	—	67.00
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	65	—	68.6

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	_	—	_

<Odor>

*Not applicable

TOTO DALIAN CO., LTD.

<Atmosphere related>

		NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)	
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	—	—	<3	1,430	1,140	<3	150	120	3.6~4.2
Boiler	400	320	55	100	80	<3	30	24	3.6

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	6~9	$6.5 \sim 8.5$	7.2
Biochemical Oxygen Demand (BOD)	mg/l	-	-	-
Chemical Oxygen Demand (COD)	mg/l	_	-	-
Suspended Solids (SS)	mg/l	-	-	-
n-hexane extract (paraffinum liquidum	mg/l	-	-	-
Copper	mg/l	0.5	0.4	< 0.05
Zinc	mg/l	1.5	1.2	0.12
Total chromium	mg/l	1	0.8	0.032
Total nitrogen	mg/l	-	-	-
Total phosphorous	mg/l	-	-	-
Cadmium and its compounds	mg/l	0.05	0.04	< 0.05
Cyanogen compound	mg/l	0.3	0.24	< 0.001
Lead and its compound	mg/l	0.2	0.16	< 0.01
Hexavalent chromium compound	mg/l	0.2	0.16	< 0.004

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	-	-	-
afternoon	dB (A)	65	-	55.5~64.4
evening	dB (A)	-	-	-
night	dB (A)	55	-	52.8~54.7

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (Beijing) Co., Ltd.

<Atmosphere related>

	NOx (ppm)				SOx (m [°] N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured	
Facility type	value	standard	value	value	standard	value	value	standard	value	
Firing furnace	100	90	3~34	20	18	<3	10	9	1.7~5.5	
Boiler	80	72	13~21	10	9	<3	5	4.5	1~1.6	
Cogeneration generator	80	72	20~45	10	9	<3	5	4.5	1~1.3	

<Water quality related >

		Regulatory	Own	
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	—	6~9	$6.5 \sim 8.5$	
Biochemical Oxygen Demand (BOD)	mg/l	40	36	
Chemical Oxygen Demand (COD)	mg/l	110	99	
Suspended Solids (SS)	mg/l	120	108	
n-hexane extract (paraffinum liquidum)	mg/l	10	9	
Copper	mg/l	1	0.9	
Zinc	mg/l	4	3.6	
Total chromium	mg/l	0.1	0.09	Γ
Total nitrogen	mg/l	40	36	Γ
Total phosphorous	mg/l	3	2.7	
Cadmium and its compounds	mg/l	0.07	0.063	
Cyanogen compound	mg/l	-	-	
Lead and its compound	mg/l	0.3	0.27	
Hexavalent chromium compound	mg/l	-	-	

NANJING TOTO CO., LTD.

<Atmosphere related>

	NOx (ppm)				SOx (m [°] N/h)			Dust (g/m [°] N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured	
Facility type	value	standard	value	value	standard	value	value	standard	value	
Firing furnace	_	—	—	—	—	_	200	180	0.004	

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	6~9	$6 \sim 9$	7.5
Biochemical Oxygen Demand (BOD)	mg/l	-	-	-
Chemical Oxygen Demand (COD)	mg/l	500	300	114
Suspended Solids (SS)	mg/l	400	360	45
n-hexane extract (paraffinum liquidum)	mg/l	20	18	2.4
Copper	mg/l	-	-	-
Zinc	mg/l	-	-	-
Total chromium	mg/l	-	-	-
Total nitrogen	mg/l	-	-	-
Total phosphorous	mg/l	-	-	0.86
Cadmium and its compounds	mg/l	-	-	-
Cyanogen compound	mg/l	-	-	-
Lead and its compound	mg/l	-	_	-
Hexavalent chromium compound	mg/l	-	-	-

Measured	
value	
7.0	
2.8	
18.0	
6.0	
0.89	
0.01	
-	
0.006	
4.13	
0.02	
-	
-	
-	
-	

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	_	—
afternoon	dB (A)	60	—	52.7~56.4
evening	dB (A)	—	—	—
night	dB (A)	50	_	45.4~47.9

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	_	—	—
night	dB	_	—	—

<Odor>
*Not applicable

<noise></noise>				
		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	-	_	-
afternoon	dB (A)	60	_	55.2~57.8
evening	dB (A)	-	_	_
night	dB (A)	50	_	46.5~48.7

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	_	—	—
night	dB	_	—	—

<Odor>

Regulated	Unit	Regulatory Own		Measured	
substances	Unic	value	standard	value	
Non-	nnm	4		05~08	
methane	ppin	4		0.5 ** 0.8	

TOTO EAST CHINA CO., LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m [°] N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	180	160	12~106	50	50	<3~7	30	30	<1~29.2
Boiler	150	150	4~35	20	20	<3~6	20	20	<1~4.2

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	$6 \sim 9$	$6 \sim 8$	6.3~7.9
Biochemical Oxygen Demand (BOD)	mg/l	40	32	2~26.2
Chemical Oxygen Demand (COD)	mg/l	110	88	13~99
Suspended Solids (SS)	mg/l	120	96	5~10
n-hexane extract (paraffinum liquidum	mg/l	10	8	-
Copper	mg/l	10	8	0.001~0.01
Zinc	mg/l	4	3	0.04~0.19
Total chromium	mg/l	-	_	-
Total nitrogen	mg/l	40	32	2.21~3.14
Total phosphorous	mg/l	3	0	0.02~0.10
Cadmium and its compounds	mg/l	-	_	-
Cyanogen compound	mg/l	-	_	-
Lead and its compound	mg/l	-	_	-
Hexavalent chromium compound	mg/l	-	-	-

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	-	-	-
afternoon	dB (A)	65	-	56~62.5
evening	dB (A)	-	-	-
night	dB (A)	55	-	50~54.8

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	_	-	—
night	dB	—	—	-

<Odor>

*Not applicable

TOTO (FUJIAN) CO., LTD.

<Atmosphere related>

	NOx (ppm)		SOx (m³N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	180	—	35.8~61.5	50	—	<3	30	—	<1~13.7
Boiler	100	85	29~90	20	20	<3	20	20	<1

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	6~9	_	7.5
Biochemical Oxygen Demand (BOD)	mg/l	10	-	1
Chemical Oxygen Demand (COD)	mg/l	50	-	19
Suspended Solids (SS)	mg/l	50	_	8
n-hexane extract (paraffinum liquidum	mg/l	3	-	< 0.06
Copper	mg/l	0.1	-	<0.04
Zinc	mg/l	1	-	0.3
Total chromium	mg/l	1	-	< 0.03
Total nitrogen	mg/l	15	-	5.02
Total phosphorous	mg/l	1	-	0.02
Cadmium and its compounds	mg/l	≤0.07	≤0.06	0.00015
Cyanogen compound	mg/l	-	-	-
Lead and its compound	mg/l	_	_	_
Hexavalent chromium compound	mg/l	-	-	-

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	-	-	-
afternoon	dB (A)	65	60.0	56.5~61
evening	dB (A)	-	-	-
night	dB (A)	55	53.0	49.3~51

Measured value

<Vibration> *Not applicable

		Regulatory	Own
	Unit	value	standard
afternoon	dB	_	—
night	dB	_	—

<Odor>

*Not applicable

TOTO (GUANGZHOU) CO., LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	-	-	-	-	-	-	-	-	-

<Water quality related >

		Regulatory	Own	
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	—	-	-	
Biochemical Oxygen Demand (BOD)	mg/l	-	-	
Chemical Oxygen Demand (COD)	mg/l	-	-	
Suspended Solids (SS)	mg/l	-	-	
n-hexane extract (paraffinum liquidum)	mg/l	-	-	
Copper	mg/l	-	-	
Zinc	mg/l	-	-	
Total chromium	mg/l	-	-	
Total nitrogen	mg/l	-	-	
Total phosphorous	mg/l	-	-	
Cadmium and its compounds	mg/l	-	-	
Cyanogen compound	mg/l	-	-	
Lead and its compound	mg/l	-	-	
Hexavalent chromium compound	mg/l	-	-	

TOTO (SHANGHAI) CO., LTD.

<Atmosphere related>

	NOx (ppm)		SOx (m³N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

		Regulatory	Own	
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	-	6.5~9.5	6.5~8.0	
Biochemical Oxygen Demand (BOD)	mg/l	300	270	
Chemical Oxygen Demand (COD)	mg/l	500.0	500.0	
Suspended Solids (SS)	mg/l	400	360	
n-hexane extract (paraffinum liquidum)	mg/l	—	—	
Copper	mg/l	—	—	
Zinc	mg/l	—	—	
Total chromium	mg/l	—	—	
Total nitrogen	mg/l	—	—	
Total phosphorous	mg/l	8	7.2	
Cadmium and its compounds	mg/l	—	—	
Cyanogen compound	mg/l	—	—	
Lead and its compound	mg/l	—	—	
Hexavalent chromium compound	mg/l	—	—	

Measured
value
-
-
-
-
-
-
-
-
-
-
-
-
-
-

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	_	_	_
afternoon	dB (A)	60	—	53~58
evening	dB (A)	—	—	—
night	dB (A)	—	—	_

<Vibration> *Not applicable

	Regulatory		Own	Measured	
	Unit	value	standard	value	
afternoon	dB	—	—	—	
night	dB	—	_	—	

<Odor>

*Not applicable

Measured
value
7.3
46
145.0
44
_
_
_
_
—
2.8
_
_
—
_

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	—	52.6~63.2
evening	dB (A)	—	—	—
night	dB (A)	55		49.1~53.5

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	-	—	—

<Odor>

TAIWAN TOTO CO., LTD.

<Atmosphere related>

	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	30	30	5~17	20	20	2~9	50	50	4~11

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	—	$6 \sim 9$	6~9	6.6
Biochemical Oxygen Demand (BOD)	mg/l	—	—	—
Chemical Oxygen Demand (COD)	mg/l	100	100	21.7
Suspended Solids (SS)	mg/l	50	50	28.4
n-hexane extract (paraffinum liquidum	mg/l	—	—	
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	—	—	—

<noise></noise>				
		Regulatory	Own	Measured
	Unit	value	standard	value

	Unit	value	standard	value
morning	dB (A)	67	67	56.8
afternoon	dB (A)	-	-	-
evening	dB (A)	57	57	50.9
night	dB (A)	52	52	46.2

<Vibration> *Not applicable

		Regulatory Own		Measured
	Unit	value	standard	value
afternoon	dB	_	-	—
night	dB	-	-	—

<Odor>

Regulated	Unit	Regulatory	Own	Measured
substances		value	standard	value
smelly		10		Not detected
substances		10		NOL GELECIEU

TOTO VIETNAM CO.LTD(HUNG YEN Branch)

<Atmosphere related>

	NOx (ppm)			SOx (m²N/h)			Dust (g/m²N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	850	850	11~16	500	500	3~9	200	200	31~46

<Water quality related >

		Regulatory	Own	Measured
Item	Unit	value	standard	value
PH (hydrogen-ion concentration)	_	$6 \sim 9$	$6 \sim 9$	7.3
Biochemical Oxygen Demand (BOD)	mg/l	30	300	3.3
Chemical Oxygen Demand (COD)	mg/l	75	350	11.3
Suspended Solids (SS)	mg/l	50	200	7.92
n-hexane extract (paraffinum liquidum	mg/l	5	4.05	<1
Copper	mg/l	2	1.62	0.0090
Zinc	mg/l	3	2.43	0.38
Total chromium	mg/l	0.2	0.162	0.010
Total nitrogen	mg/l	20	60	1.64
Total phosphorous	mg/l	4	15	0.280
Cadmium and its compounds	mg/l	0.05	0.0405	< 0.003
Cyanogen compound	mg/l	0.07	0.0567	< 0.01
Lead and its compound	mg/l	0.1	0.081	< 0.0001
Hexavalent chromium compound	mg/l	0.05	0.0405	< 0.005

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	70	70	-
afternoon	dB (A)	-	-	-
evening	dB (A)	70	70	-
night	dB (A)	_	-	-

<Vibration>

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO VIETNAM CO.LTD(Dong Anh Branch)

<Atmosphere related>

	NOx (ppm)		SOx (m°N/h)			Dust (g/m²N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	850	850	16.1~28.6	500	500	3.4~12.3	200	200	14~19.7

<Water quality related >

		Regulatory	Own	۱ I
Item	Unit	value	standard	
PH (hydrogen-ion concentration)	-	6~9	6~9	
Biochemical Oxygen Demand (BOD)	mg/l	30	240	
Chemical Oxygen Demand (COD)	mg/l	75	350	
Suspended Solids (SS)	mg/l	50	200	
n-hexane extract (paraffinum liquidum)	mg/l	5	4.5	
Copper	mg/l	2	1.8	
Zinc	mg/l	3	2.7	
Total chromium	mg/l	0.2	0.18	
Total nitrogen	mg/l	20	40	
Total phosphorous	mg/l	4	5	
Cadmium and its compounds	mg/l	0.05	0.045	
Cyanogen compound	mg/l	0.07	0.063	
Lead and its compound	mg/l	0.1	0.09	
Hexavalent chromium compound	mg/l	0.05	0.045	

TOTO MALAYSIA SDN.BHD.

<Atmosphere related>

	NOx (ppm)		SOx (m ³ N/h)			Dust (g/m³N)			
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Power generation facility	—	_	_	_		_	—	_	—

<water quality="" related=""> No result for year 2020. Analysis schedule (1 every 3 years)</water>								
		Regulatory	Own	Measured				
Item	Unit	value	standard	value				
PH (hydrogen-ion concentration)	—	$6 \sim 9$	$5.4 \sim 8.1$	—				
Biochemical Oxygen Demand (BOD)	mg/l	40	36	—				
Chemical Oxygen Demand (COD)	mg/l	200	180	—				
Suspended Solids (SS)	mg/l	100	90	—				
n-hexane extract (paraffinum liquidum)	mg/l	—	—	—				
Copper	mg/l	1	0.9	—				
Zinc	mg/l	2	1.8	_				
Total chromium	mg/l	—	—	—				
Total nitrogen	mg/l	20	18	—				
Total phosphorous	mg/l	—	—	-				
Cadmium and its compounds	mg/l	0.02	0.018	_				
Cyanogen compound	mg/l	0.1	0.09	—				
Lead and its compound	mg/l	0.5	0.45	—				
Hexavalent chromium compound	mg/l	0.05	0.045					

Measured
value
7.1
3
12.1
8.8
1.000
0.008
0.560
0.010
1.570
0.302
0.003
0.010
0.005
0.010

<Noise>

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	—	—	—
afternoon	dB (A)	70	70	—
evening	dB (A)	—	—	—
night	dB (A)		—	

<Vibration>

		Regulatory	Own	Measured	
	Unit	value	standard	value	
afternoon	dB	70	70	—	
night	dB	—	—	—	

<Odor>

*Not applicable

<Noise> No result for year 2020.

		Regulatory	Own	Measured
	Unit	value	standard	value
morning	dB (A)	70	63	—
afternoon	dB (A)	-	-	—
evening	dB (A)	-	-	—
night	dB (A)	60	54	—

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	_		-

<Odor>

TOTO INDIA INDUSTRIES PVT. LTD.

<Atmosphere related>

		NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)	
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	50	25	6.2~6.7	100	25	2.0~4.0	150	100	8.0~9.8
Drying machine	50	25	2	100	25	2	150	100	7.7~8.7
Power generation facilit	50	25	17.7~19.3	100	40	20.7~22.7	150	100	54.0~54.7

<Water quality related >

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	$6.5 \sim 8.5$	$6.5 \sim 8.0$	7.7
Biochemical Oxygen Demand (BOD)	mg/l	30	20	8
Chemical Oxygen Demand (COD)	mg/l	100	70	29
Suspended Solids (SS)	mg/l	100	60	12.75
n-hexane extract (paraffinum liquidum	mg/l	-	-	-
Copper	mg/l	2	1	<0.2
Zinc	mg/l	5	3	1.63
Total chromium	mg/l	2	1	<0.2
Total nitrogen	mg/l	50	25	<5
Total phosphorous	mg/l	-	-	-
Cadmium and its compounds	mg/l	2	1	<0.2
Cyanogen compound	mg/l	0.2	0.1	<0.05
Lead and its compound	mg/l	<0.1	<0.1	<0.1
Hexavalent chromium compound	mg/l	1	<0.5	<0.02

<Noise>

	Unit	Regulatory	Own	Measured
morning	dB (A)	75	70	55.8~64
afternoon	dB (A)	75	70	56.5~61.6
evening	dB (A)	75	70	52~67.3
night	dB (A)	75	70	51.8~58

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	_
night	dB	—	—	—

<Odor> *Not applicable

TOTO (THAILAND) CO., LTD.

<Atmosphere related>

-									
	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured
Facility type	value	standard	value	value	standard	value	value	standard	value
Firing furnace	200	100	1.0~49	60	30	1	356	160	-
Drying machine	200	100	1.0	60	30	1.0~4.0	338	160	-

<Water quality related >

Item	Unit	Regulatory	Own	
PH (hydrogen-ion concentration)	-	$5.5 \sim 9$	$5.5 \sim 9$	Γ
Biochemical Oxygen Demand (BOD)	mg/l	≤ 20	≤ 20	
Chemical Oxygen Demand (COD)	mg/l	≤ 120	≤ 120	N
Suspended Solids (SS)	mg/l	≤ 50	≤ 50	N
n-hexane extract (paraffinum liquidum)	mg/l	≤ 5	≤ 5	N
Copper	mg/l	-	-	
Zinc	mg/l	-	-	
Total chromium	mg/l	-	-	
Total nitrogen	mg/l	-	-	Γ
Total phosphorous	mg/l	-	-	
Cadmium and its compounds	mg/l	-	-	
Cyanogen compound	mg/l	-	-	
Lead and its compound	mg/l	_	-	
Hexavalent chromium compound	mg/l	-	-	

TOTO Germany GmbH

<Atmosphere related>

		NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory	Own	Measured	Regulatory	Own	Measured	Regulatory	Own	Measured	
Facility type	value	standard	value	value	standard	value	value	standard	value	
No applicable facility	-	-	-	-	—	—	—	—	—	

<Water quality related *Not applicable

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	mg/l	_	—	—
Chemical Oxygen Demand (COD)	mg/l	—	—	—
Suspended Solids (SS)	mg/l	—	—	—
n-hexane extract (paraffinum liquidum	mg/l	—	—	—
Copper	mg/l	—	—	—
Zinc	mg/l	—	—	—
Total chromium	mg/l	—	—	—
Total nitrogen	mg/l	—	—	—
Total phosphorous	mg/l	—	—	—
Cadmium and its compounds	mg/l	—	—	—
Cyanogen compound	mg/l	—	—	—
Lead and its compound	mg/l	—	—	—
Hexavalent chromium compound	mg/l	_	_	_

<noise> *Not application</noise>

	Unit	Regulatory	Own	Measured
morning	dB (A)	—	_	—
afternoon	dB (A)	_	_	_
evening	dB (A)	_	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	—	—	—
night	dB	-	-	-

<Odor>

*Not applicable

<Noise>

*Not applicable

Measured	
7.4	
2.2	
lot Ditected	
lot Ditected	
Not Ditected	
_	
_	
-	
-	
-	
-	
-	
-	
-	

	Unit	Regulatory	Own	Measured
morning	dB (A)	-	-	-
afternoon	dB (A)	-	-	-
evening	dB (A)	-	-	-
night	dB (A)	-	-	-

<Vibration> *Not applicable

		Regulatory	Own	Measured
	Unit	value	standard	value
afternoon	dB	_	—	_
night	dB	—	—	—

<Odor>