

	2020-32135 -24-03-512161		
			13 14 55031
	1		
	<u>11 4 13.772 34 05 20.1 3</u>		
	2452		2 2
/		/	2020 2
	10000		2
%	0.2		
		2	43606.72 65.14
	2015-2030		
	2015 1		

	<p>1</p> <p>2001 6</p> <p>2006 1</p> <p>2</p> <p>200 1</p> <p>3</p> <p>11</p> <p>200 17</p> <p>2015</p> <p>2015 131</p>
	<p>1</p> <p>1</p> <p>201</p> <p>51.4</p> <p>2020 2</p> <p>2020-32135 -24-03-512161</p> <p>2</p> <p>2015 131</p> <p>1</p> <p>3</p>

	<p style="text-align: right;">2006 1</p> <p style="text-align: right;">1</p> <p style="text-align: center;">2006 1</p> <p style="text-align: center;">200 1</p> <p style="text-align: right;">200 17</p>
	<p style="text-align: left;">1</p> <p style="text-align: left;">1</p> <p style="text-align: right;">1</p> <p style="text-align: right;">201 74</p>

10 2.5

2020

201

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2.02 ^{3/}

15.4

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2015 131

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2015 131

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[2020]78

		4061 /
		1025 /
		546 /

1-5

1-5 **2020**

2020 7 1

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		7 15		
	5	7 15		
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5	>	
6	1†x7#5 \$# €Ó-12†N@`!^ É• †— >M!^"r	

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2000 EE 1984 1/3 # - 1 •



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	1.				
	2.2020				
	11.	66. 2 .2	5.4 2.7	14 .6	1.2
	1.				
	2.				
	3.				
	4.				
	1.	524.15		2020	1.
		2020			70%
		0%			
	2.	456. 7	2020		3 0.67
	3.				2.
					3.
				2020 4	

5 2018 122 1-9			
<hr/>			
1			
2		201	
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6	2020		
4			
5	45	201	15
<hr/>			
6			

		1 1 -2002 1	
8		2018	

9

		32/ 3500 201	
		37 22-201	
		37 22-201	37 22-201 32/4041-2021
		2000	2000
			1000

	10	[2014]128	2014 12
	15		
	11		[2019]53
	1		
		2	
			3

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201 6

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2021 6

10000

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600

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* AîÒEP, R j ' B9jÓpë NQY , @ñ0 QR • Å

		2#	042.11 ²	4	250	
					160 ²	/
						/
					606 /	
					4 0 /	
					10 /	
					500 ²	
					15 1#	
					10 ²	
					10 ²	
3						
2-2						
						h
1	6		0	600 /	+600 /	*300 2400
1			600 /	600 /	0	
4						
2-3						
				/	/	
1		-5545		0	6	+6
2		-5030		0	6	+6
3		3		0	6	+6
4		/		0	6	+6

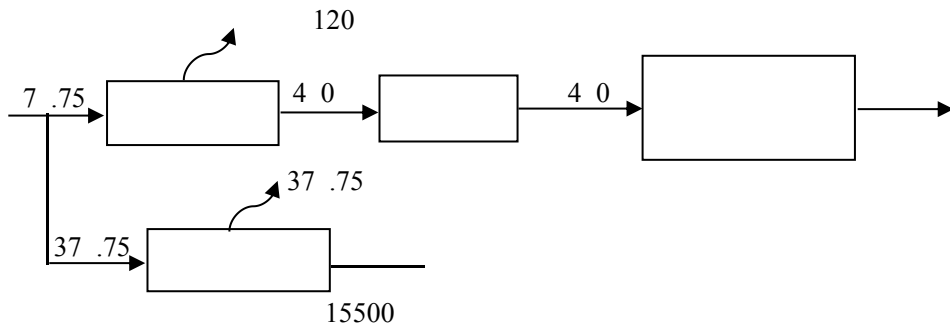
5		16	3	3	0
6		-250	1	1	0
7		1600	0	15	+15
		1200	0	15	+15
		100	0	1	+1
10		50	0	1	+1
11		00	0	1	+1
12		50	0	1	+1
13		-30	0	1	+1
14		$\frac{10}{7.5}$	0	1	+1

5

1

2-4

		/a	/a	/a			
1		0	300	+300			25 /
2		0	50	+50			25 /
3		0	10	+10			25 /
4		0	0.01	+0.01			1 /
5		10000 ^{3/}	10000 ^{3/}	0			/
6		500 ^{3/}	500 ^{3/}	0			/
7		5	10	+5			/



2-2

/a

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/

15.

4

/

2 .75 /

7 .75 /

360 /

4 0 /

1000 ²

8

30

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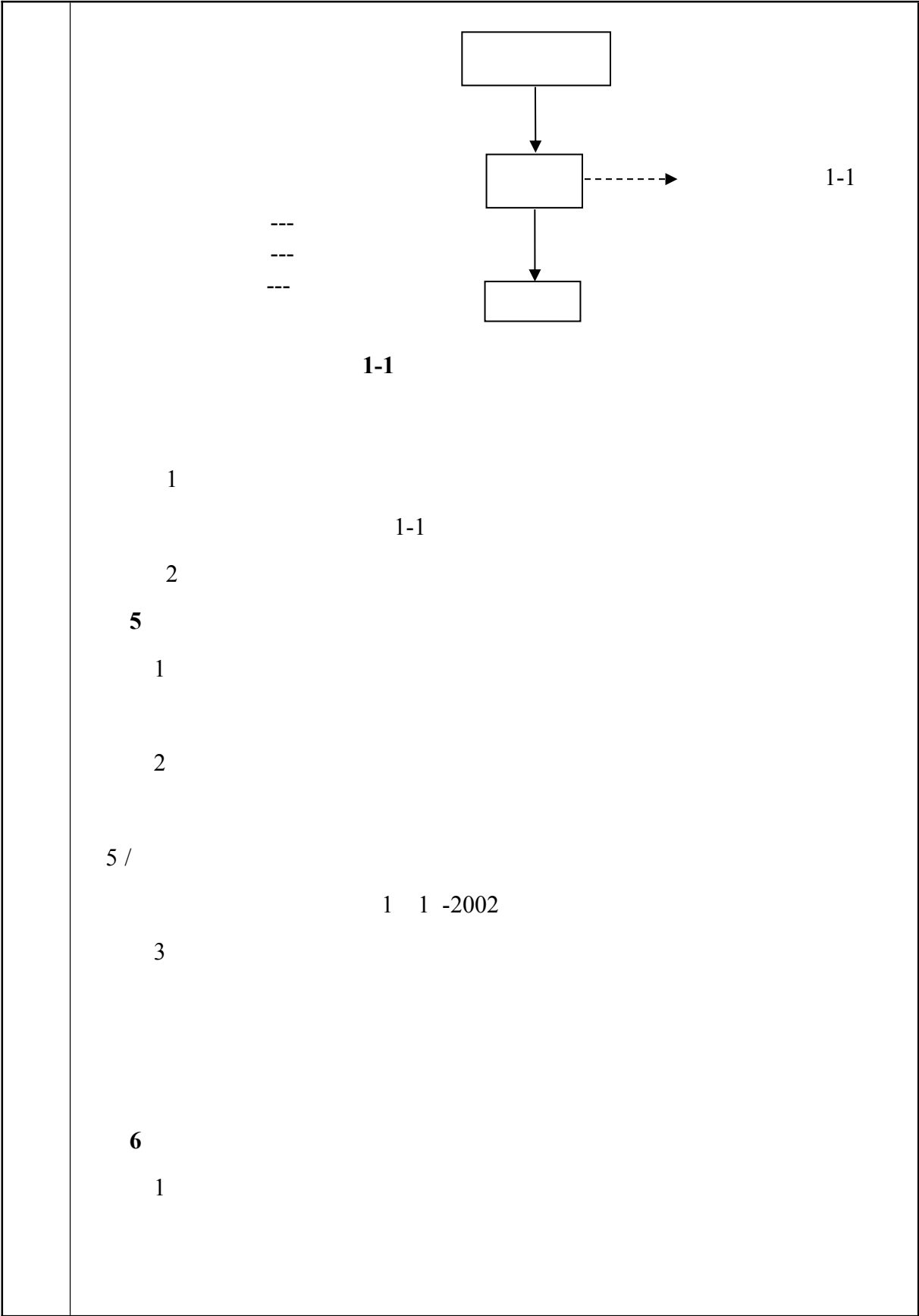
40

300

9

2

				1	1	2
	1					3
	1			201	6	
		1				2021
	2					
			1-14			
			1-14			
		/	/	/	/	
	3					
			1-15			
			1-15			
						h
				600	/	2400
	4					
			1-1			



1 1 -2002

1-2

30

1-2

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2021 4

2021- -0336

1-16

1-16		1		
2021.04.14	1		.36	
			162	/
			0	/
			2 .4	/
			3. 6	/

7 -1 6

/ 31 62-2015) 1

4

2

1-21				
		/a		
1		1.2		
2		1.5		
8				
1				
1				7 122
9				

- (2.2-201)

(30 5-2012)

3-3

3-3

g/ ³

		g/ ³	
1	2020.10.0	02 00	0.5
		0 00	0.57
		14 00	0.55
		20 00	0.64
	2020.10.10	02 00	0.5
		0 00	0.62
		14 00	0.64
		20 00	0.56
	2020.10.11	02 00	0.63
		0 00	0.53
		14 00	0.5
		20 00	0.65
	2020.10.12	02 00	0.65
		0 00	0.56
		14 00	0.5
		20 00	0.52
	2020.10.13	02 00	0.65
		0 00	0.5
		14 00	0.5
		20 00	0.74
	2020.10.14	02 00	0.63
		0 00	0.60
		14 00	0.6
		20 00	0.65
	2020.10.15	02 00	0.65
		0 00	0.72
		14 00	0.62
		20 00	0.67

3-3

g/ ³

		g/ ³		%	%	
1		2000	0.52-0.74	0.37	0	

				-	(2.2-201)
		2021			
	2021	5	2021	2.5	43 /
			74.2%	4.5 /	
					2020
	%	10%	2. %		
				
	2.5				
	3				
	4				
	5				
	6				
	7				
				
	2				

3 3 -2002

2017-201

3-4

3-4

g/ , H

		H	DO	COD	COD _M							LAS
	2017	7.36	4.	1	4.4	0.002	1.23	0.236	0.035	0.006		
	201	7.2	5.3	21	4.	0.002	1.3	0.23	0.04	0.004	0.03	
	201	7.31	6.52	20	5.1	0.0016	1.32	0.21	0.04	0.006	0.0 3	
	2017	7.35	5.05	1	4.2	0.0022	0. 6	0.1	0.04	0.006	0.02	
	201	7.47	5. 6	21	4.7	0.0021	0. 2	0.21	0.04	0.005	0.03	
	201	7.21	6. 0	20	4.7	0.0017	1.14	0.1	0.04	0.005	0.0	
		6	3	30	10	0.01	1.5	0.3	0.5	0.05	0.3	

ND

LAS

0.05 g/ ³

3

30 6-200 3

201

54. ()

10 61. () 50 51.4 ()

0 47.7 ()

30 6-200

3

1

500

3-5

3-5

	/						
	X	Y					

		666726.50	34.0 660					15
UTM								
3-6								
				6 40				3 3 -2002
				15	450			30 6-200 2
				7100	6 .34			
1								
		31572-2015	5					
				37 22-201				
						31572-2015		
							14554- 3	1
2			3-7	3-				
3-7								
		g/ ³	g/h			g/ ³		
1		60	1.2	15		4.0		31572-2015 5
2		2000		15		60		(14554- 3) 1 2
3-8								
			g/ ³					
			6		1			
			20					
2								

7 - 6 4
/ 31 62-2015 1

1 1 -2002 1

3-

3-9		g/L	H
	6-		6-
	500		50
	400		10
	35		5
			0.5
	70		15
		7 -1 6 4	
		/ 31 62-2015	1
		1 1 -2002	1

3

1234 -200 3

3-10

3-10

GB12348-2008

	dB(A)	dB(A)
3	65	55

4

1 5 -2020

1 5 7-2001

2013 36

2000 120

2010 61

3-11				/a					
		1#		0.74	0.77	-	0.07		
				0.07	0	-	0.07		
				360	0	360	360		
				0.144	0.126	0.10	0.01		
				0.10	0.104	0.072	0.004		
				0.00	0.007	0.00	0.002		
				0.001	0.000	0.001	0.0002		
				0.011	0.006	0.011	0.005		
				3.6	3.6	0	0		
				4.37	4.37	0	0		
3.12				/a					
							*		
								*	
		0	0	0.74	0.77	0.07	0	0.07	+0.07
		0	0	0.07	0	0.07	0	0.07	+0.07
		120	120	360	0	360	0	40	+0.01
		0.036	0.006	0.144	0.126	0.01	0	0.024	+0.004
		0.024	0.001	0.10	0.104	0.004	0	0.005	+0.002
	3-	0.003	0.0006	0.00	0.007	0.002	0	0.0026	+0.0002
		0.0004	0.00006	0.001	0.000	0.0002	0	0.00026	+0.005
		0.003	0.001	0.011	0.006	0.005	0	0.006	+0.01
		0	0	3.6	3.6	0	0	0	0
		0	0	4.37	4.37	0	0	0	0
0.07/				0.07/					

2014 14						
2			1.5			
			360 /			
0.10 /	0.072 /	3-	0.00 /	0.001 /	0.011 /	
	0.01 /		0.004 /	3-	0.002 /	0.0002 /
0.005 /						
0.0 7 /				0.0 7 /		
2014 14						
2			1.5			
				4 0 /		
	0.144 /		0.0 6 /	3-	0.012 /	0.0014 /
0.014 /			0.024 /		0.005 /	3- 0.002 /
0.0002 /	0.007 /					

1											
4-1											
4-1											
	(³ /h)		(^g / ³)	(g/h)	(/a)		(%)	(^g / ³)	(g/h)	/a	()
1#	5000		72.33	0.364	0.74		0	7.23	0.036	0.07	15
2-1											
1 0 200											
360.1 /											
2 2											
2 2											
1											
2.70 / -											
0.71 /											
2400											

4-3

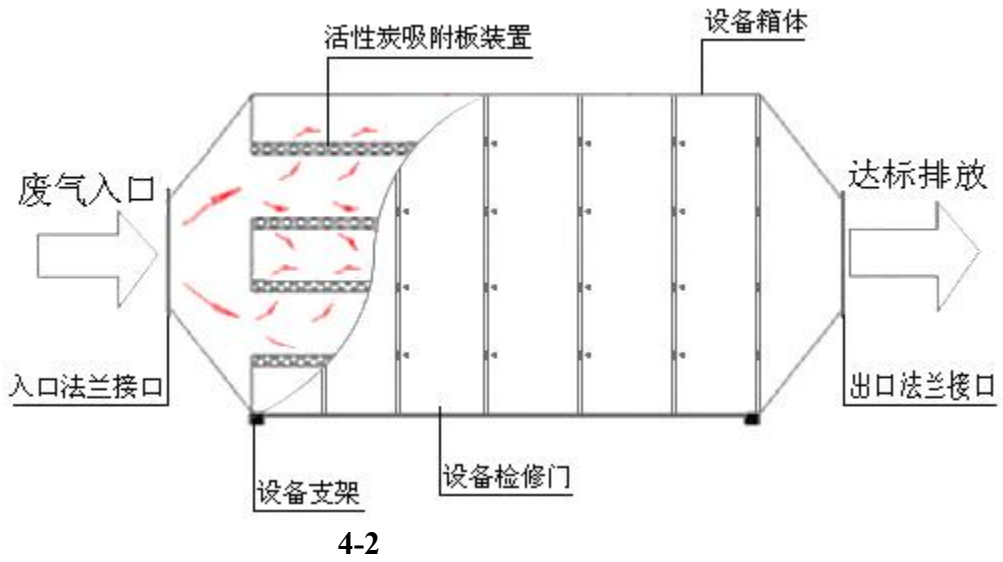
500 1 10-10
700 2300 ^{2/}

50

0%

0%

4-2



4-4

	5000
^{3/h}	300*250*100
	12 40
c ^{3/g}	0. 1
	5%
(^{2/g})	1000 1500
	10
	1

g	30
	0.3 /
1100	
2	

4-5

4-5

		g/ ³	g/h	g/ ³	g/h	
201 .1.5	01	.2	0.14	0.	0.013	0.7
		.06	0.14	0.	0.013	0.7
		.64	0.15	0. 6	0.013	1.3
201 .1.6	01	.66	0.15	0. 4	0.012	2
		.11	0.14	0. 7	0.013	0.7
		.45	0.15	0. 5	0.013	1.3

0%

5

1

4-6

4-6

		2000	/ ³	

- (2.2-201) 5.3

- 2.2-201

4-7

4-7

			10%
		1%	10%
			1%

	10%								10%		
	$P_i = \frac{C_i}{C_{0i}} \times 100\%$										
	%										
	/ 3										
0	/ 3										
2	4-										
4-8											
	()										
	X	Y			()	()	()	()	(³/h)		
1#	666 53.5	3772	0.4		0	15	0.5	20	5000		0.03 6 /
4-9											
	()										
	X	Y			()	()	()				
	672137.73	377	1.7		0	45	20				0.0405 /
3	4-10										
/											
/											
65000											
3											
-1											
/											
/											

	/	/
	/	/

10%

4-11

		10%
	1%	10%
		1%

4-12

			Kg/h	g/ ³	Pi %	g/ ³	D10%()
1#			0.036	2	0.13	0.001 74	0
			0.0405		1.35	0.0202	

1.35 0.02

g/g)

W G

U

ã

Ò

100

50

100

5	/				1000	
2		400	400	400		0
2-4		700	470	350	470	350
4		530	350	260	350	260
2		0.01			0.015	
2		0.021			0.036	
2		1.5			.7	
		1.5			.77	
		0.7			.7	
		0.4			.4	

470 0.021

4-17

4-17

	1	001	1#	,			4	1 /	3 -2017	3157 2-201 5 5
				,			4	1 /	14675 /	1455 4- 3 2
	2		/	,			4	1 /	- 604-2017	3157 2-201 5
				,			4	1 /	14675 /	1455 4- 3 1

9

31572-2015

5

15

37 22-201

31572-2015

1

30

300

50 / *

450 /

0.

360 /

2

5^{3/}

6.³

/ 50102-2014

4-1

4-19

^{3/h}								%	
	5		15	40		25			0.05
				-10	0	10	20	30	40
1/	0.0016			0.000	0.001	0.0012	0.0014	0.0015	0.0016
				0.1		0.05			
				1.2		0.			

1 1 -2002 1

2

, , , . □ .
,200 ,27() 1155-1161

/

600 ^{3/}

2 ^{3/}

5 ^{3/}

300 /

200 /

3- 25 /

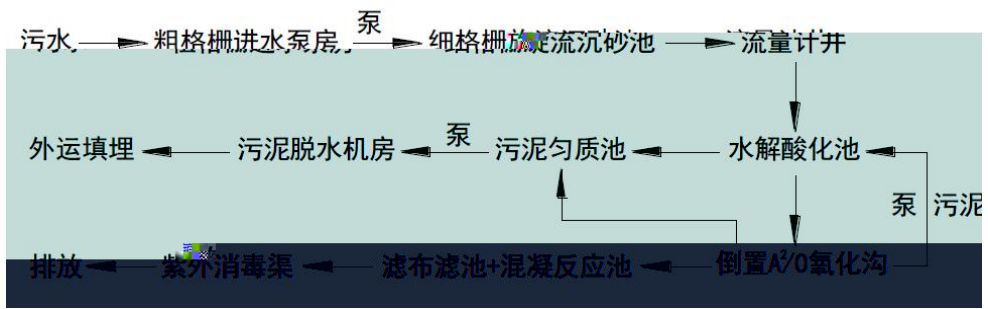
3 /

30 /

3

3

4.



4-4

2/

2/

2/

2/

7. 3/

7 7. 3/

5.1 3/

4 0 3/ 1.6 3/

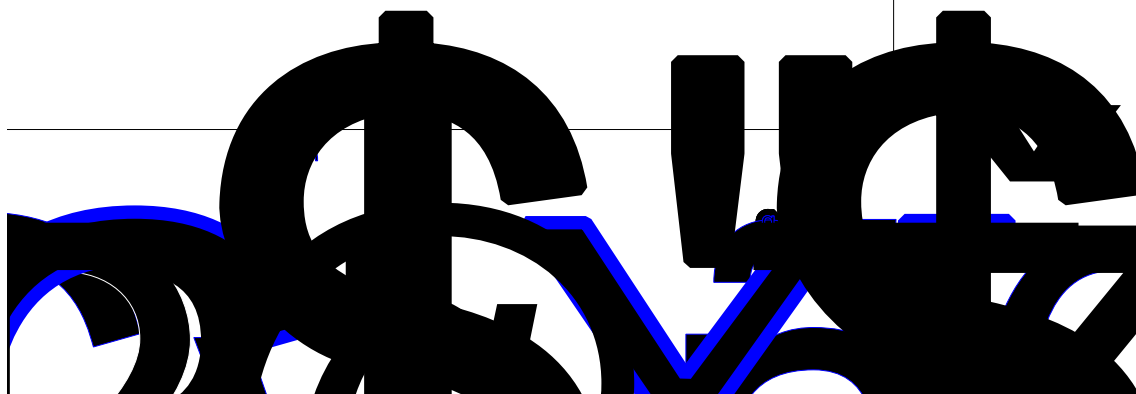
4-21

/a	g/ L	/a	g/L	/a	g/L	/a
	400	0.144	300	0.10	50	0.01
	300	0.10	200	0.072	10	0.004
	25	0.00	25	0.00	5	0.002
360	3	0.001	3	0.001	0.5	0.0002
	30	0.011	30	0.011	15	0.005

	/a									/a
	4 0		400	0.1 2		300	0.144		50	0.024
			300	0.144		200	0.0 6		10	0.005
			25	0.012		25	0.012		5	0.0026
			3	0.0014		3	0.0014		0.5	0.00026
			30	0.014		30	0.014		15	0.006

4-23

				/			/ g/L
1				/a			50
2							10
3	00	11	34 0	4 0	/		5
4	1	4 '5 0.42"	4'57. 11"				0.5
5							15



1 1 -2002 1

3

70 0 ()

2.4-200

1

$$L_A(r) = L_A(r_0) - A$$

()

0 0 ()

2

()

$$L_{eqg} = 10 \lg \left(\frac{1}{T} \sum_i t_i 10^{0.1 L_{Ai}} \right)$$

()

()

3

()

$$L_{eq} = 10 \lg(10^{0.1L_{eqg}} + 10^{0.1L_{eqb}})$$

()

()

4

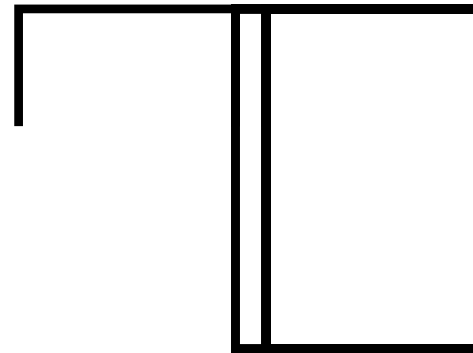
$$A_{div} = 20 \lg(r / r_0)$$

0

4-26

4-26

dB dB dB dB dB
 A A A A A



		1	0	25	45	33.06	24.5			
		30	0	25	40	32.04	22.6			
		1	0	25	50	33.	24.03			
		1	75	25	60	35.56	24.44			
		1	75	25	55	34.1	15.1			
		6	75	25	5	3.5	17.43	22.3	57	57.01
		6	70	25	0	3.06	.5			
		1	0	25	0	3.0	1.3			
		30	0	25	5	3.55	15.45			
		1	0	25	5	3.5	1.42			
		1	75	25	0	3.06	1.4			
		1	75	25	0	3.0	10.2			

57.01
1234 -200 3

5

4-27

					dB(A)	dB(A)
	0 -17	1 -21			65	55
						1 /

4

1

1

30

0.5

4.5 /

2		1.56	1.56		0	
3		4.3 7	4.3 7	0	0	
4		6.0	6.0	0	0	

2

1

2

3. 6 / 4.3 7 /

4.5 / 10^{-2}

0.

250 4

0.4^{-2} 1.6^{-2}

10^{-2}

1 5 -2001

10^{-2}

4.3 7 /

4 1.462 100 4

15 0.4^{-2}

6^{-2} 10^{-2}

3

4-30										
4-31					4-32					
4-30										
									/	
1						4	00-03 -4	4.3 7		
2					/	14	/	5.6		
3					/	10	/	0.36		
4					/		/	6.0		
4-31										
									/a	
1			4	00-03 -4	4.3 7					
GB18599-2001										

2

610-2016 4.1

-116

-

3

4-35

4-35

		10^{-10} /
		10^{-7} /

1 5 7-2001

4

6

1

7.5

7.1

1

4-36

4-36

E	P			
	P1	P2	P3	P4
1	+			
2				
3				
+				

$$Q = \frac{q_1}{Q_1} + \frac{q_2}{Q_2} + \dots + \frac{q_n}{Q_n}$$

1 2

1 2

1

1

1 1

10

2

10

100

3

100

4-37

4-37

	i	Qi		i/Qi
	1.462	50	/ 16 -201	0.02 24
	/		/	0.02 24

0.02 24

1

2

16 -201

4-36

4-38

	IV IV⁺	III	II	I

3

4

50140-2005

50016-2014

501 7- 3

1.1

	/			
				37 22-201
	1#		5000 ^{3/} + +15	31572-201 5
		3-	5 ³	1 1 -200 2 1
		/		1234 -200 3
	/			
	/			

32/ 37 5-2020

2015 224

1

2.

3

4

1

7 122

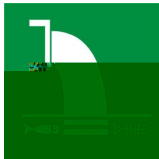



()






5-1

5-1

	-01				
	-02				
	1#				
	-01				
	-01				
	-02				

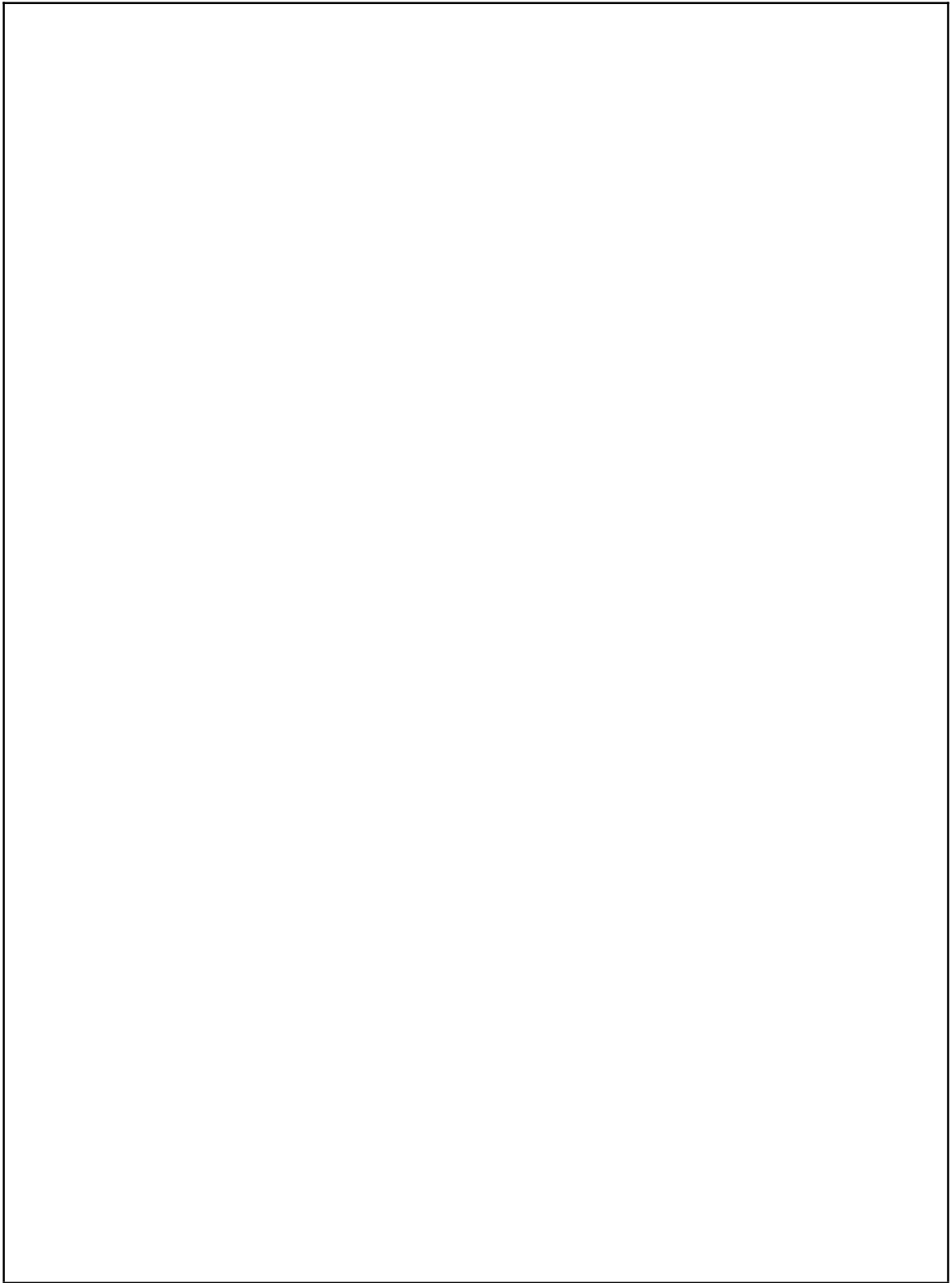
5-2

1				
2				

	3				
	4				
	5	/			
1					
2					
3					
4					
2					
5-3					
5-3					
			5000 ^{3/} +	31572-2015	6
			5 ³	5	/

				1234 -200 3	2
			10 ²	1 5 -2001	1
			10 ²	1 5 7-2001	1
					/
					/
					/
					/
			0.0 7 /	0.0 7 /	
				2014 14	2
				1.5	
				360 /	
				0.10 /	0.072 /
			3- 0.00 /	0.001 /	0.011 /
			0.01 /	0.004 /	3- 0.002 /
			0.0002 /	0.005 /	
				0.0 7 /	/
			0.0 7 /		
				2014 14	2
				1.5	
				4 0 /	
				0.144 /	
			0.0 6 /	3- 0.012 /	0.0014 /
				0.024 /	0.014 /
			0.002 /	0.0002 /	0.005 /
				0.007 /	3-
					/

	50	/	
		10	/



		0	0	0	0.184	0	0.184	+0.184
		120	0	0	360	0	4 0	+360
		0.036	0	0	0.10	0	0.144	+0.10
		0.024	0	0	0.072	0	0.0 6	+0.072
	3-	0.003	0	0	0.00	0	0.012	+0.00
		0.0004	0	0	0.001	0	0.0014	+0.001
		0.003	0	0	0.011	0	0.014	+0.011
		1.5	0	0	4.5	0	6	+4.5
		1.2	0	0	0.36	0	1.56	+0.36
		0	0	0	5.6	0	5.6	+5.6
		0	0	0	4.3 7	0	4.3 7	+4.3 7

+ + - -

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