HJ941-2018

[2015]4

/

.....1

.....1

.....1

.....2

.....1

.....1
1.1 1
1.2 2
1.3 1
1.4 2
1.5 10
.....12
2.1 12
2.2 13
2.3 13
2.4 13
2.5 15
.....16
3.1 16
3.2 16
3.3 16
3.4 16
3.5 17
.....18
4.1 18
4.2 18
4.3 19
4.4 19
4.5 20

.....21

.....21
.....24
.....26
.....28
.....30
.....32
.....35

.....39

1 39
2 39
3 40
4 41
5 41
6 DMF 42
7 43
8 44

9 44
10 45
11 46
11 46
12 47
13 48
14 48
15 49
16 50
17 50
18 51
19 52
20 53
21 54
22 54
23 55
24 56
25 57
26 57
28 59
29 59
30 60
31 61
32 61
33 62
34 63
35 64
36 64
37 65
38 2- 66
39 N- 66
40 67
41 68
42 68
43 69
44 70
45 70
46 71
47 72
48 73
49 73
50 74
51 75
52 76
53 76
54 77
55 78
56 79
57 79
58 80
59 81
60 82
61 82

62 83
63 84
64 85
66 86
67 86
68 87

2015 146

/

3		DMF			
4		pH COD SS			
5					

1.1

4.3-1

3.1-1

1		2- DMF	/	
2			/	
		2- DMF		
3		DMF		

1.2

Ñ%

Θ

F–

1.3

3.1-2

	1 2 3 4 5 6 7 8 9 10 11 12 13
	1 119 2 3 4 5
	1 2 3 4
	1 2 120 3 4 5 6 7 8
	1 2 3 4 5 6
	1 2 3 4 5

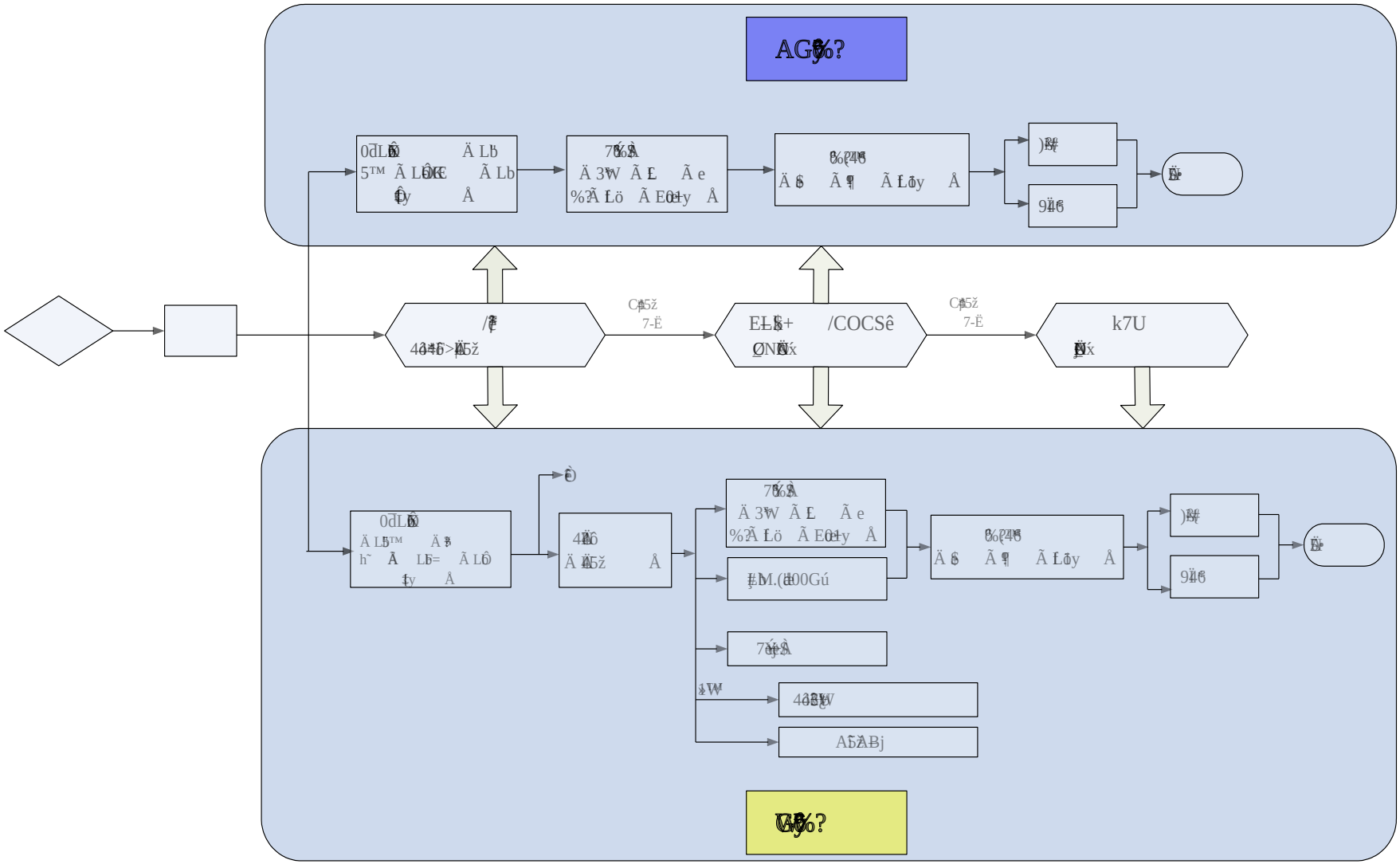
12

13

1

2

3



3.1-1

1.4.2

1

119 120 12369/12345

1

2

3

4 / /

2-1

5

6

1~2

1

( )

0.2 / . 2

2

( )

3

( )

1~2

1

1

2 3

3 5

3 5

3 5

7 1 2

8

120

9

pH COD

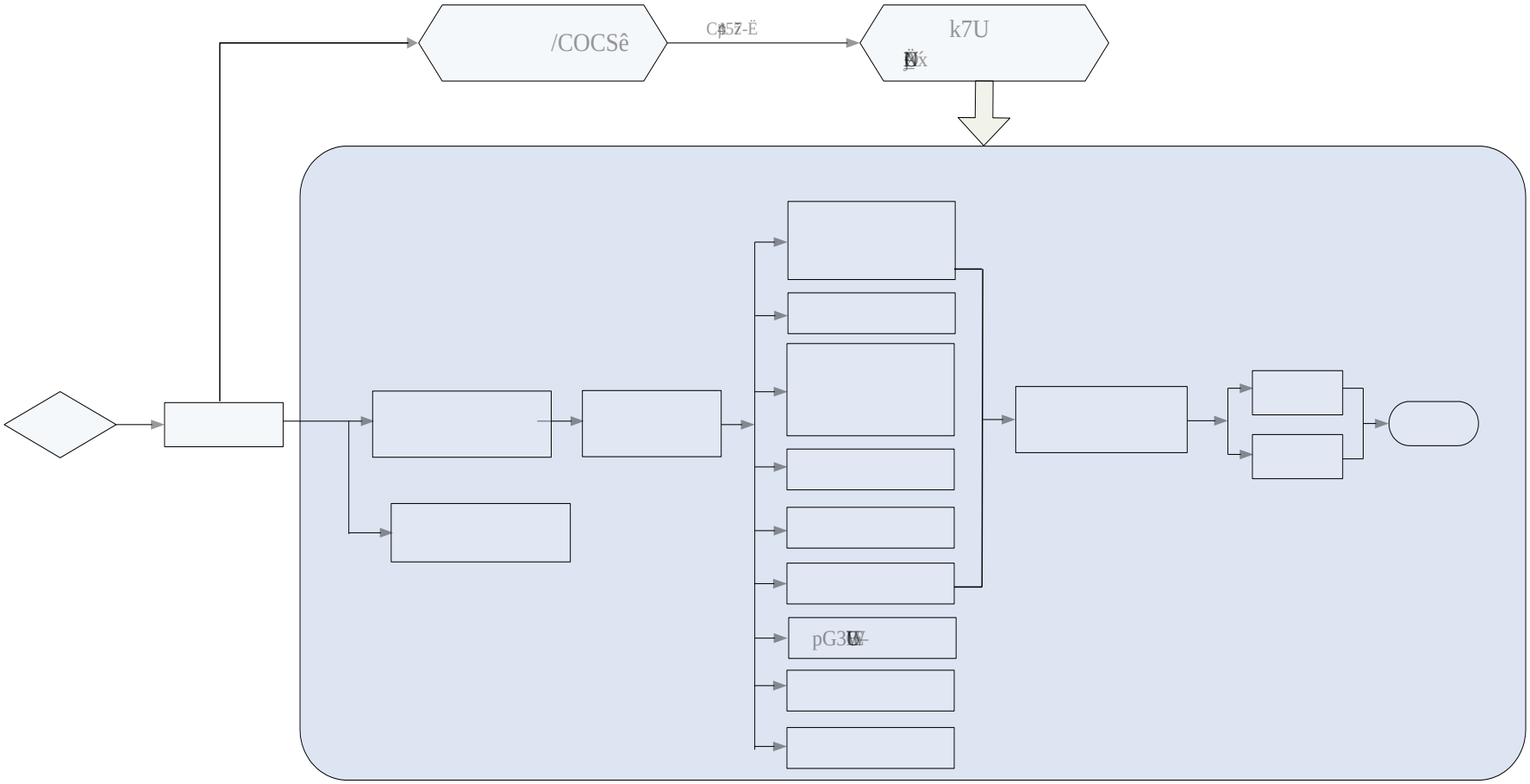
10

11

12

13

14



3.1-2 /

1.4.3

1

1

2

3

4

5

6

7

2

3

4

5

6

2.1

4.3-1

3.2-1

1		2- DMF	/	
2			/	
		2- DMF		
3		pH COD SS		

2.2

1

2

3

4

2.3

3.1-2

2.4

2.4.1

1.4.1

2.4.2

1.4.2

2.4.3

1

1

2

3

4

5

6 pH

COD SS

7

8

2.4.4

1

1

2

3

4

5

3 3.1

5

4.1

4.3-

3.4-1

1				

4.2

1

2

4.3

3.1-2

4.4

1

1

2

3

4

5

6

10cm

pH

COD SS GB/T14848

7

8

4.5

1.5

4-1

			/		2-		
	2-						
	1		/			-	-
	2					-	-

	3		/ / 119 120 12369/12345		-	-
	4					
	5				-	-
					-	-
			1		-	
			1		-	
	6				-	
	7		120		-	

8

	10		1			
			2			
	11		1 2		-	
	12				-	-

4-3

		/		DMF
	DMF			

1				-	-
2				-	-
3				-	-
4					-
5				-	-

4-4

		/		pH CODcr

4-5

		/					
	1					-	-
	2					-	-
	3					-	-
	4						-
	5					-	-
						-	-
						-	-

					-	-
	6		pH COD			-
	7		1			-
			2			-
	8				-	-

4-6

				2-			
	/						
	1					-	-
	2					-	-
	3					-	-

	4		/		-	-
	5			/	-	-
	6		/			
	7				-	-
					-	-
			1		-	
					-	
	8				-	

	9		120		-	

10

pH COD

1

2013 37

1 IV

5% 5% VOCs 5%

2

10% VOCs 10%

3

20% 20%

VOCs 15%

4

30% 30%

VOCs

4-7

			/			
	AQI					
	DMF					
	1		IV		-	
	2		1 IV 5% 5% VOCs 5% 2 10% VOCs 10% 3 20% 20% V OCs 15% 4		-	-

			30% 30% VOCs 20%		
	3			-	

1

	/
	80

2

	LD_{50}7060mg/kg( ) 7340mg/kg( ) LC_{50}37620mg/m^3 10 ( ) 4.3mg/L×50 2.6mg/L×39 500mg 15mg/24

Ú

	15
	( )

6 DMF

	LD_{50}4000 mg/kg( ) 4720 mg/kg( ) LC_{50} 9400mg/m3 2 ( )

	15 15

7

8

	LD_{50}3530mg/kg LC_{50}850mg/m^3 1 ( ) 2 5mg/m^3 5 / 1 9 41 97mg/m^3 2 / 3 4
	( )
	15 15 2-4%

9

	LD_{50}1780mg/kg( ) 4000mg/kg( ) LC_{50}1000ppm 4 ( ) 50ug 525mg

	15 15

10

	/

V •F1T bo p 45ž •@ A o €0E!

	85

11

	, ,
	LD_{50} 273 mg/kg( ) LC_{50}
	15 15
	85

11

	/

	( )

12

	, ,
	LD_{50} 80 mg/kg( )
	1
	75

13

	(LD$_{50}$) 908 mg/kg( ) LC$_{50}$ 47702mg/m^3 4 ( )
	15 15
	( )
	80

14

	/

	85

15

	LD_{50} 5800 mg/kg( ) 20000 mg/kg( ) LC_{50}

16

	LD_{50} 670 mg/kg( ) 2800 mg/kg( ) LC_{50} 4050mg/m^3 7 ( ) 63mg 625mg

17

	$_{50}LD_{50}$ 1600 2000 LC_{50} 88000 mg/m^3 1/2 (162mg	mg/24
	8800 mg/m	
		80

19

	LD_{50} 5620 mg/kg( ) 4940 mg/kg( ) LC_{50} 5760mg/m3 8 ( ) 400ppm

20

,

	85

21

	LD_{50} 5045 mg/kg( ) 12800 mg/kg( )

22

	LD_{50} 40 mg/kg( )

	15

23

	LD_{50} 1290 mg/kg( ) 2980 mg/kg( ) 2980 mg/kg( )

24

	LD_{50} 1350 mg/kg( )
	LC_{50} 72386mg/m^3 1 ( )

25

	, ,
	/

26

.58 275.69 418.39 0.47998

27

	pH 3.5 4.5 74
	LD_{50}1780mg/kg( ) 4000mg/kg( ) LC_{50}1000ppm 4 ( ) 50ug 525mg
	15 15

28

	,
	LD_{50} 12705 mg/kg( )

29

	LD_{50} 85 mg/kg( )

	80

30

	/

31

	/
	15
	75

32

	, ,
	/

33

	LD_{50} 1100 mg/kg( ) 400 mg/kg( )
	15 15

34

	LD_{50} LC_{50} 1044 mg/m^3( )
	150m
	15 15

35

	LD_{50} 13100 mg/kg( ) LC_{50} 9480 mg/kg( ) 20mg 500mg/24
	15

36

	LD_{50} 2460 mg/kg( ) 3400 mg/kg( )

	15
	1211

37

	/
	20

38 2-

	LD_{50} 5720 mg/kg( ) 4500 mg/kg( ) LC_{50} 6000ppm 4 ( )

39 N-

	LD_{50} LC_{50}

40

	, , ,
	/
	15 15

41

	15 15

44

	LD_{50} 330 mg/kg( ) 560 mg/kg( ) LC_{50} 65000mg/m^3 1/2 ( )
	15 15

45

	15 15

46

	LD_{50} 3400 mg/kg( ) 6480 mg/kg( ) LC_{50} 23520mg/m^3 8 ( )
	-[2] -[2]

47

	LD_{50} 5170 mg/kg( ) 7600 mg/kg( ) LC_{50} 46000mg/m3 2 ( )
	1211

48

	15

50

	/
	15 15

	( )

51

	LD_{50} 3030 mg/kg( ) >7500 mg/kg( ) LC_{50} 85000mg/m^3 4 ( )

52

	LD_{50} 2140 mg/kg( ) LC_{50} 510mg/m^3 2 ( ) 320mg/m^3 2 ( )
	15 15
	85

53

	LD_{50} 800 mg/kg( ) 270 mg/kg( ) LC_{50} 590 mg/m^3( ) 1ppm/6 ( ) ( )

	15 15 1% 60mL

54

	LD_{50} 1100 mg/kg( ) LC_{50} 15000 mg/m^3 15 ( )

	15 15
	85

55

	LD_{50} 4020 mg/kg( ) LC_{50}
	15 15

56

	LD_{50}205mg/kg( ) LC_{50}405mg/m^3 4 ( ) 155mg/m^3×8 3
	24
	150 ( )

	15 15
	1211
	75

59

	LD_{50} LC_{50} 1044 mg/m^3( )
	15 15
	85

60

	LD_{50} 460 mg/kg( ) 570 mg/kg( ) LC_{50} 6000mg/m^3 2 ( )
	15 15

61

	15 15
	1211

75

	15 15
	-5

63

	LD_{50} 2730 mg/kg( ) 1250 mg/kg( ) LC_{50} 12663mg/m^3 8 ( ) mg/kg/20 20mg 500mg

	1:5000

64

	LD_{50} 1215 mg/kg( ) LC_{50} 221190mg/m^3 2 ( ) 100mg 360mg

	-

68

	,
	LD_{50} 446 mg/kg( ) LC_{50}